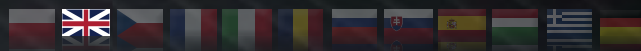


atrion / a3



Pulsar[®]

www.pulsar.pl

2020

**26 YEARS
OF EXPERIENCE**

MANUFACTURER OF POWER SUPPLIES,
METAL ENCLOSURES AND ELECTRONICS

marketing@atrion.es

+34 606 34 60 02



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Available on request

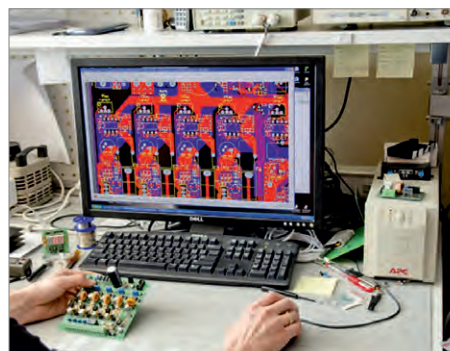
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OEM / ODM



Design Department

19



Quality - ISO 9001 / REACH

19



Machinery stock

20



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Buffer power supply units

HPSB series  • switch mode • 13,8VDC / 27,6VDC / 48VDC / 54VDC GREEN POWER	21
HPSBOC series  • switch mode • 13,8VDC / 27,6VDC • with technical outputs GREEN POWER plus	22
AWZ series  • linear • 13,8VDC GREY POWER	23
AWZ plus series  • linear • 13,8VDC / 27,6VDC • with technical outputs • compliant with EN50131-6 standard for alarm systems - GRADE 2 GREY POWER plus	24
PSBS series  • switch mode, with transformer • 13,8VDC • with technical outputs BLUE POWER	25
PSBEN series  • switch mode, with transformer • 13,8VDC / 27,6VDC • with technical outputs • compliant with EN50131-6 standard for alarm systems - GRADE 3 BLACK POWER	26
EN54 series  • switch mode, with transformer • 27,6VDC • EN54-4 and EN12101-10 certified • communication: LAN, RS485 - appropriate modules required RED POWER	28
EN54C series  • switch mode • 27,6VDC • EN54-4 and EN12101-10 certified • communication: LAN, RS485 - appropriate modules required RED POWER plus	30
Buffer power supply modules EN54M  • switch mode • 27,6VDC • in accordance with EN54-4 standard for fire detection • built-in power supply module RED POWER plus	32
Accessories for PSBEN, EN54, EN54C, EN54M series  • fuse modules • sequential modules • interfaces (LAN, RS485) • „PowerSecurity“ application	34
AWZ series - Dahua  • switch mode • 13,8VDC • power supply unit for Access Control Systems	37
PSBSH series  • switch mode, with transformer • 13,8VDC • with technical outputs • IP65 hermetic enclosure	38

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Batteries

HPB, SCB, STB series

39



Enclosed power supply units

PS series

40



- switch mode
- 12VDC / 48VDC

PSB series

41



- switch mode
- buffer 13,8VDC / 27,6VDC / 54VDC

PSBOC series

42



- switch mode
- buffer 13,8VDC / 27,6VDC
- with technical outputs

PoE switches for IP cameras (compliance with IEEE 802.3af/at)

S series

44



- PoE switch with power supply unit
- 10/100 Mb/s and 1 Gb/s ports
- number of outputs: 4 / 8 / 16 / 24
- Long Range mode

SG series

45



- PoE switch with power supply unit
- 1 Gb/s ports
- number of outputs: 4 / 8

SF series

46



- PoE switch with power supply unit
- with SFP socket
- 10/100 Mb/s and 1 Gb/s ports
- number of outputs: 8 / 16 / 24

SFG series

47



- PoE switch with power supply unit
- with SFP socket
- 1 Gb/s ports
- number of outputs: 4

SFG10F8 series

48



- optical switch
- switches with power supply unit
- SFP sockets: 8 pcs
- RJ45 sockets: 2 pcs
- 1 Gb/s ports

SF...M series

49



- management switch
- PoE switch with power supply unit
- 10/100 Mb/s and 1 Gb/s ports
- number of outputs: 4 / 8 / 16

50



51



52



53



54



55



56



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RACK 19"

PoE switches for IP cameras

(compliance with IEEE 802.3af/at)

S, SF, SF...M series

57


- PoE switch for IP cameras with power supply desktop
- with SFP socket
- number of outputs: 8 / 16 / 24
- mounting brackets for RACK 19" included

RS, RSG, RSF series

58


- PoE switch for IP cameras with power supply
- number of outputs: 4 / 8 / 16

PoE switches with buffer power supply for IP cameras

(compliance with IEEE 802.3af/at)

RSUPS, RSGUPS, RSFUPS series

59


- PoE switch with buffer power supply for IP cameras
- number of outputs: 8 / 16

PoE switches with buffer power supply for IP cameras and NVR

(compliance with IEEE 802.3af/at)

RSUPS...R, RSGUPS...R, RSFUPS...R series

60


- PoE switch with buffer power supply for IP cameras and NVR
- number of outputs: 8 / 16 + recorder 12VDC / 4A

SFP fiber optic modules for switches of SF..., SFG..., SF...M, ISFG..., ISF... series

GBIC series

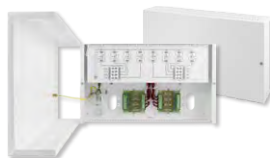
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- fiber type: single mode (SM) / multimode (MM)
- optical connector Type: LC / SC

Table of contents

Multi-output power supply units

(HD-CVI / HD-TVI / AHD cameras, access control, other applications)

PSDC...T series	62
 • 12VDC • number of outputs: 4 / 5 / 8 / 9 / 16 (e.g. cameras HD) • fuse type: glass fuse	
PSDCS series	63
 • 12VDC • number of outputs: 8 / 16 (e.g. cameras HD) • fuse type: glass fuse • with independently adjustable voltage and with galvanic isolation of each section	
PSDCR series	64
 • 12VDC • number of outputs: 8 / 16 (e.g. cameras HD) • fuse type: glass fuse • with recorder space • GDPR	
PSDC series	65
 • 12VDC • number of outputs: 4 / 8 / 16 (e.g. cameras HD) • fuse type: glass fuse / PTC • with fault outputs	
PSDCSEP series	66
 • 12V±15VDC each output channel independently adjustable • number of outputs: 4 / 8 (e.g. cameras HD) • fuse type: glass fuse • with galvanic separation of each channel	
PSCU series	67
 • solution for long sections (above 100m) of camera power cables • 34VDC with galvanic separation of each channel • cooperating with CDC10H / 15H converters • number of outputs: 4 / 8 (e.g. cameras HD)	
PSAC series	68
 • ~24VAC or ~27VAC • number of outputs: 8 (e.g. cameras HD) • fuse type: glass fuse / PTC • with fault outputs	
PSACH series	69
 • ~24VAC or ~27VAC • number of outputs: 1 (e.g. cameras HD) • fuse type: glass fuse • IP65 hermetic enclosure	

Multi-output buffer power supply units

(HD-CVI / HD-TVI / AHD cameras, recorders, access control, other applications)

PSDCB series	70
 • buffer 13,8VDC • number of outputs: 5 / 9 (e.g. cameras HD)	

Buffer power supply units for HD cameras and DVR

PSUPS series	71
 • buffer 13,8VDC / 12VDC • buffer power supply unit for cameras and recorder • number of outputs: 8 / 16 HD cameras 13,8VDC + recorder 12VDC/4A (12VDC/5A)	
PSUPS... CR series	72
 • buffer 13,8VDC / 12VDC • buffer power supply unit for cameras and recorder • number of outputs: 8 / 16 HD cameras 13,8VDC + recorder 12VDC/4A (12VDC/5A) • with recorder space • GDPR	

Multi-output power supply units

(HD-CVI / HD-TVI / AHD cameras, access control, other applications)

R series

73



- 12VDC
- number of outputs: 16 (e.g. cameras HD)
- fuse type: glass fuse / PTC

Buffer power supply units

(HD-CVI / HD-TVI / AHD cameras, access control, other applications)

ROUPS series – single output

74



- buffer 13,8VDC / 27,6VDC / 54VDC
- number of outputs: 1
- fuse type: glass fuse
- cooperate with RLB series

RLB series

75



- RACK fuse board
- number of outputs: 8
- fuse type: glass fuse
- dedicated for power supply units of ROUPS series

Buffer power supply units

(HD-CVI / HD-TVI / AHD cameras, IP cameras, recorder)

RUPS...R series

76



- buffer 13,8VDC
- number of outputs: 16 HD cameras 13,8VDC + recorder 12VDC / 4A
- fuse type: glass fuse / PTC

ROUPS...VR series – single output

77



- buffer 12VDC
- single output 12VDC / 5A (e.g. of recorder)
- fuse type: glass fuse

RPUPS...R series

78



- buffer 54VDC
- number of outputs: 12 IP cameras 54VDC + recorder 12VDC / 4A
- fuse type: PTC

Battery controllers

RCB, RC, AWZ series

79



- 12VDC / 24VDC / 48VDC
- cooperation with 13,8 / 27,6 / 54VDC uninterruptible power supply units
- operation with:
 - buffer PoE switches

VAS Power System for PAVIRO system by BOSCH

(compliance with: EN54-4, EN12101-10 norms / standards)

DSOP24V

80



- VAS cabinets
- Devices VAS: BOSCH - PAVIRO
- Fans, thermostat, batteries, wheels
- Power supplies for VAS
- Safety contact strip
- 230VAC voltage distribution terminal
- Indication panel
- Firefighter's microphone power supply unit
- Enclosure of firefighter's microphone
- Power adapter of firefighter's microphone
- Ethernet communication
- CONFIDSO - Configuration software for VAS

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Power supply units for DIN rail

DINB series

81



- buffer 13,8VDC / 27,6VDC

Plug-in and desktop type power supplies

PSA series

82



- 12VDC plug-in type

PSD series

83



- 12VDC / 15VDC / 52VDC desktop type

PSR series

83



- desktop type with adjustable output voltage 12÷15VDC

PSC series

84



- 12VDC / 13,8VDC
- hermetic enclosure IP67
- epoxy encapsulated

PSCL series

85



- switch mode 12VDC
- hermetic enclosure IP67
- epoxy encapsulated

PSP series

86



- PoE Power Supply
- 48VDC / 52VDC desktop type

Desktop type buffer power supplies

PSCLB series

87



- 13,8VDC
- buffer
- hermetic enclosure IP67
- epoxy encapsulated

Accessories for CCTV cameras – HD cameras

Transmitters, converters

88



- transmitters
- converters



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Accessories for CCTV cameras – IP cameras

Adapters / Splitters

88



- PoE adapters
- PoE splitters

SFP fiber optic modules for switches of SF..., SFG..., SF...M, ISFG..., ISF... series

61



- fiber type: single mode (SM) / multimode (MM)
- optical connector Type: LC / SC

Extenders PoE

89



- increases Ethernet and PoE power range by 100 meters

Extenders PoE – hermetic enclosure IP56

90



- increases Ethernet and PoE power range by 100 meters
- hermetic enclosure IP56

PoE modules for IP cameras

91



- RJ45
- without fuses
- with glass fuses and technical outputs

Buffer power supply modules

MS, MSRK series

92



- buffer
- switch mode 13,8VDC
- with technical outputs

DC/DC power converter modules

DC/DC series

93



- step down
- step up
- step down and step up

DCDC...H series

94



- step down
- hermetic enclosure IP67
- epoxy encapsulated

DC/DC series

94



- step down
- in plastic enclosure

MSC series

95



- AC/DC inverter and DC/DC converter (step-down converter)
- for installation in CCTV cameras

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Voltage reducers

RN series

96

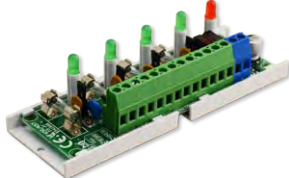


- reduce voltage:
 - 13,8VDC → 12VDC
 - 27,6VDC → 24VDC

Fuse modules, protection modules

Distribution modules

97



- PTC
- glass fuse
- with technical outputs
 - jumper selectable fuse type: glass fuse / PTC
 - glass fuse

Distribution modules in plastic enclosures

98



- PTC
- glass fuse

Straight-through

98



- glass fuses (galvanic separation of each output)
- 230VAC - glass fuse

Protection

99



- overvoltage module

Relay and time modules

Relay modules

99



- AC/DC supply, fuse in C/NO/NC relay circuit
- DC power, fuse in coil circuit
- DC power, without fuse

Relay modules with T -, T + control inputs

100



- DC power, without fuse

Time modules

100



- multi-function relay - C/NO/NC - 230VAC
- with output OC
- with relays - C/NO/NC - 30VDC

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Transformers

TRP, TRZ, EI series, others

101



- range: 10VA÷80VA

Panic alarm buttons

Foot-operated panic button

102



- PN series

Accessories

Modules

103



- module for conversion technical outputs (OC type) into technical outputs of relay type (C/NO/NC)
 - dedicated to power supply units of PSBS / PSBSH / MSRK / AWZ plus series
- automation module of technical outputs (OC type) and relay type (C/NO/NC)
 - dedicated to power supply units of PSB / HPSB series

Accessories

151



- connectors
- cables
- tamper switches
- locks
- DIN rail brackets
- mounting elements
- others

Mean Well products



Power supply units

153



- enclosed
- for DIN rail
- buffer
- for LED lighting

Power converters

153



- DC/AC
 - with full sinusoid
 - with modified sinusoid
- DC/DC

Battery chargers

153



- 12V / 24V / 48V
- Charger with a capacity of 120W to 1000W

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Enclosures for alarm control panels

Surface-mounted

Standard - fitted with transformer of TRP series	104
 • Universal • SATEL • PARADOX • RISCO • BOSCH	

GRADE 3 - fitted with transformer of TRP / TRZ / EI series	105
 • Universal • SATEL • PARADOX	

Two-level - fitted with transformer of TRP series	106
 • Universal	

With power supply of LRS series	106
 • RISCO	

Empty - without transformer	107
 • Universal • SATEL • PARADOX	

Empty - without transformer - GRADE 3	107
 • SATEL	

Empty - without transformer - INTEGRATOR	108
 • Universal	

Enclosures for alarm control panels

Flush-mounted

Fitted with transformer of TRZ series	109
 • Universal	

Empty - without transformer	109
 • Universal	

Enclosures for expanders

Surface-mounted

Standard	110
 • Universal • SATEL • BOSCH	

GRADE 3	110
 • Universal • SATEL	

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Enclosures for keypads

111



- surface-mounted
- flush-mounted

Enclosures for Access Control Systems

113



- BOSCH

Enclosures for GSM transmitters

112



- GSM

Enclosure for VAS (Voice Alarm Systems)

114



- enclosure for loudspeaker line supervision system by BOSCH

Enclosures for batteries

115



- surface mounted
- DIN rail mounted

Enclosures for power supply units

116



- Pulsar: PS series
- Mean Well: LRS, RS, RSP series

Enclosures for CCTV recorders

117



- horizontal
- vertical
- vertical – with space for monitor, switches, recorder

DIN/RACK enclosures

120



- with DIN rails
- mounting plate
- RACK 19" profiles

Enclosures with DIN rails

121



- surface-mounted

Teletechnical enclosures

122



- residential – surface mounted – TOM
- residential – flush mounted – TOM
- universal with plywood – TUN

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Fire protection installation boxes

125



- straight-through boxes
- distribution boxes
- distribution boxes protected with fuses

Others

126



- enclosure with cable frame
- fire safety instructions box
- enclosure for evacuation door key

Plastic enclosures – hermetic IP65

128



- with mounting plate – AWO series
- without mounting plate – AWP series

RACK 19" cabinets

RWA series
– wall mounted, ready-to-assemble

130



- 600 × 450
- 600 × 600
- 6U / 9U / 12U

RW series – wall mounted, fully assembled

131



- 600 × 450
- 600 × 600
- 6U / 9U / 12U / 15U

RWD series
– double section – fully assembled

132



- 600 × 600
- 6U / 9U / 12U

RS series
– floor standing, ready-to-assemble

133



- 600 × 600
- 600 × 800
- 600 × 1000
- 800 × 800
- 800 × 1000
- 15U / 22U / 27U / 42U

ZRS series – floor standing, fully assembled

134



- 600 × 600
- 600 × 800
- 600 × 1000
- 15U / 22U / 27U / 42U

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Accessories for RACK 19" cabinets

Enclosure for alarm control panel - vertical

135



- mounting dimensions:
 - 19" x 7U

Enclosures for alarm control panel - horizontal, sliding

136



- mounting dimensions:
 - 19" x 2U
 - 19" x 4U

ARAD enclosures

137



- mounting dimensions:
 - 19" x 1U
 - 19" x 2U
 - 19" x 3U
 - 19" x 4U

Drawers

138



- mounting dimensions:
 - 19" x 2U
 - 19" x 3U
 - 19" x 4U

Enclosures with DIN rail

139



- mounting dimensions:
 - 19" x 3U
 - 19" x 4U

Enclosure for switches

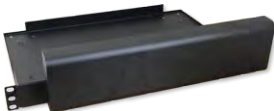
140



- mounting dimensions:
 - 19" x 9U

Masking frame with shelf for RACK power supply units

141



- mounting dimensions:
 - 19" x 1U

Battery enclosures

141



- mounting dimensions:
 - 19" x 2U

Fixed shelves, mounting rails

142



- mounting dimensions:
 - 19" x 1U
 - 19" x 2U

Sliding shelves

142



- mounting dimensions:
 - 19" x 1U
 - 19" x 2U

Patch panels - Cat. 5e and 6 - UTP / FTP

143



- mounting dimensions:
 - 19" x 1U

Fans

144



- mounting dimensions:
 - 19" x 1U

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Accessories for RACK 19" cabinets

Fans with thermostat

144



- mounting dimensions:
 - 19" x 1U

Thermostats

145



- mounting dimensions:
 - 19" x 1U

Power distribution units

145



- mounting dimensions:
 - 19" x 1U

Lighting

146



- mounting dimensions:
 - 19" x 1U

Blanking panels

146



- mounting dimensions:
 - 19" x 1U
 - 19" x 2U
 - 19" x 3U
 - 19" x 4U

Patch panel frames

147



- mounting dimensions:
 - 19" x 1U

Cable management panels

147



- mounting dimensions:
 - 19" x 1U

Brush grommets

148



- mounting dimensions:
 - 19" x 1U

Tampers - tampering protectors

148



Grounding wires

149



Plinths

149



Casters, leveling feet

150



Locks, fasteners, screws

150



Other accessories

151



About us

PULSAR is company established in 1994. Its main profile is production of equipment and accessories for alarm, access control and CCTV systems. Currently, our production halls, warehouse and others plant departments cover 7000m².

Our company employs more than 250 people with high professional qualifications, working in each of following departments: production, construction and technological, marketing and administration. These allow us to ensure constant high quality of products and provided services.

Today, PULSAR is Polish leader in its sector, and has many clients in Europe, Middle East, USA and Africa.

Company position in market is result of high quality and reliability of our products, experience and excellent customer service.

Company policy ensures continuous increase in sales and expansion into new markets.

Company has been gradually extending training range and actively participates in fairs and trade events (e.g. SECUREX, IFSEC, ENERGETAB, ROMANIAN SECURITY FAIR, SICUREZZA, INTERSEC, NEW SECURITY, SAFETY EXPO, AUTOMATICON, SECURITY EXPO, INDELEX, SECTECH, SICUR, MIPS, SECUREXPO, EXPOPOWER), due to contacts with our customers and buyers.

SICUREZZA 2019 – ITALY



SAFETY EXPO 2019 – ITALY



EXPOPROTECTION 2018 – FRANCE



SECURITY ESSEN 2018 – GERMANY



Products

PULSAR has been continuously extending its product range. New designs are result of thorough analysis of market needs and consultations with business partners. New products are being developed by our qualified Design Department engineering staff, who takes into account distributors' and fitters' comments and opinions in their designs.

Current product mix of our company includes:

Metal enclosures



- for I&HAS alarm systems
- for monitoring systems
- for access control
- for CCTV

Power supply units for IP cameras – RACK 19"



- multi-output
- buffer

Metal enclosures with DIN rail



- with DIN rails
- with DIN rails / RACK profiles

Power supply units for HD cameras



- multi-output
- buffer
- hermetic
- 24VAC

Teletechnical enclosures



- universal for households
- universal with plywood

PoE switches



- in metal enclosure
- buffer
- for DIN rails
- in RACK 19" enclosure

RACK 19" cabinets and accessories



- wall mounted cabinets
- floor standing cabinets
- power supply units
- PoE switches
- enclosures
- others

Modules



- buffer power supplies
- DC/DC voltage converters
- voltage reducers
- fuse modules
- protection modules
- time modules

Buffer power supply units



- universal – 13,8 / 27,6 / 54VDC
- compliant with EN50131-6 standard for alarm systems
- in accordance with EN54-4 standard for fire detection

AC/AC transformer



- TRP series – IP30
- TRZ series – IP43
- EI series
- others

Power supply units



- enclosed
- hermetic
- 24VAC
- open frame

Accessories



- for enclosures
- for power supply units

We are an authorized distributor of Mean Well brand
Product offer is available at www.pulsar.pl/meanwell



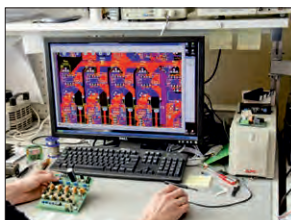
Available on request (OEM / ODM)

Our company undertake and comprehensively implements individual designs of metal enclosures and power supply units according to needs, specifications and designs submitted by our clients. Purpose for carrying out individual designs is to ensure client's maximum satisfaction. Therefore, rule we have approved as basis of our activity is to meet our clients' requirements so that they are fully satisfied with product and contact with our company.

Enclosures



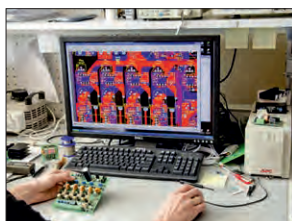
Power supplies & Electronics



Design Department

Construction and Technological Department of our company is responsible for issues of product designs, selection and quality of employed materials, production technology for accessories, and preparing individual designs. We own suitable tooling and developed machinery stock, which allows us to implement both our own and external designs.

Design department



EMC laboratory



Quality – ISO 9001

In concern for product quality, our production process is based exclusively on highest quality components supplied by reliable distributors. Devices are subjected to repeated checks during each production stage. Having in mind legal and functional aspects, equipment is put through LVD and EMC tests in accredited research laboratories.

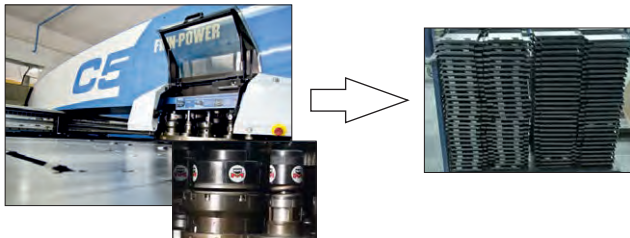
This is proven by valid CE certificates and certificates confirming equipment compliance with EN 50131 standard for alarm systems issued for selected products. High functional and technical quality is proven by our clients' opinions. Having obtained quality management system certificate ISO 9001, our company guarantees proper quality policy.



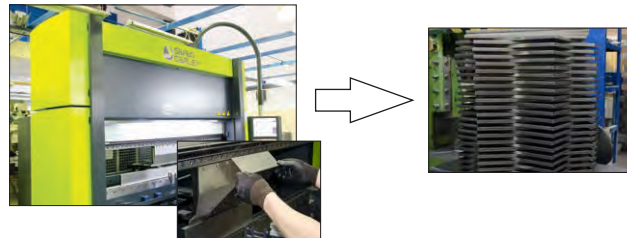
Machinery stock

PULSAR has been continuously modernising its machinery stock in order to improve quality of products, extend product mix and services, and reduce production costs. Currently, we have following machines and facilities:

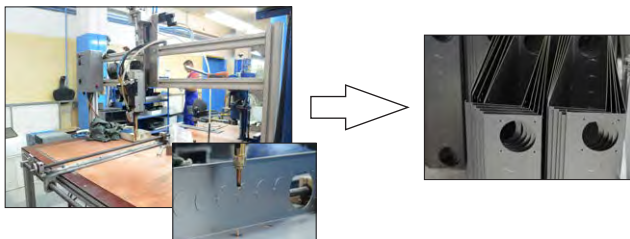
FINN-POWER numerical cutters



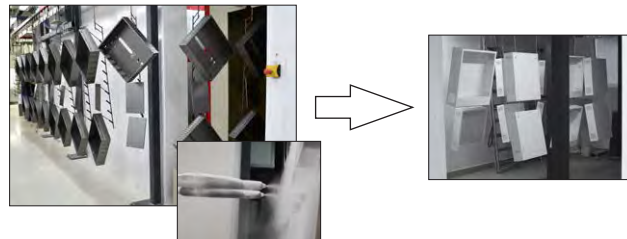
Press brakes, eccentric



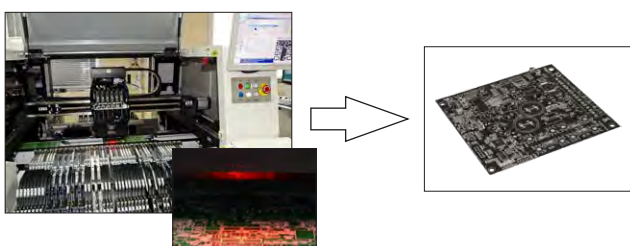
Welding machines



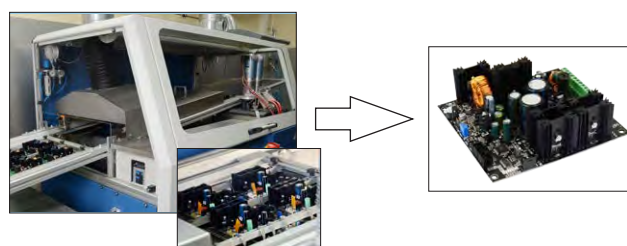
Powder coating line



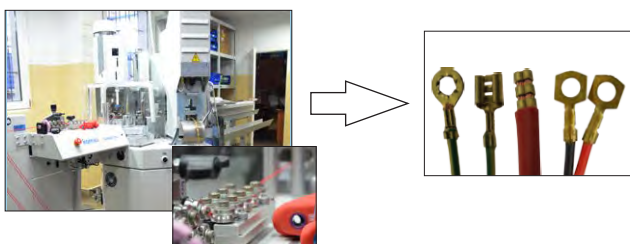
SMD (Surface Mounted Devices) assembly stations



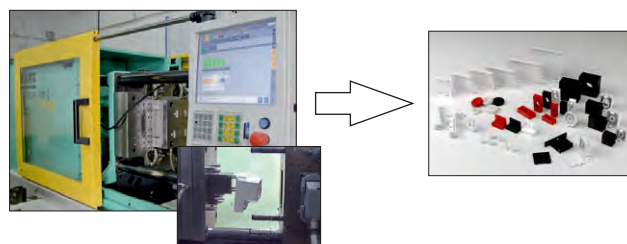
Wave soldering machine



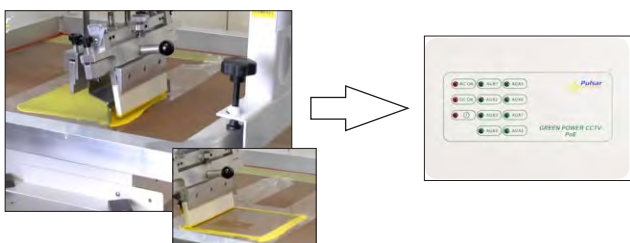
Wire processing machine



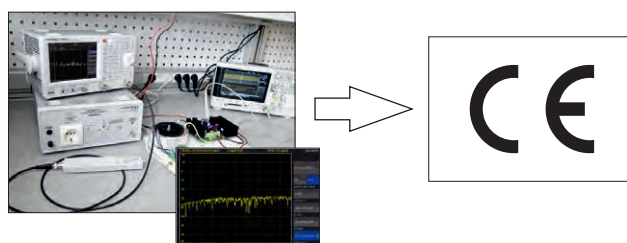
Injection moulding machines



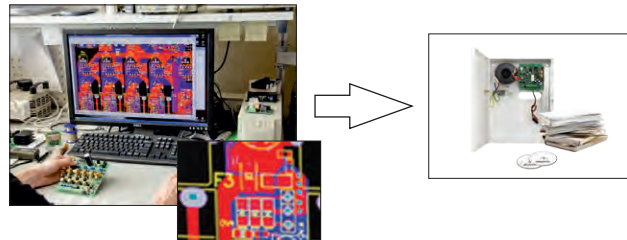
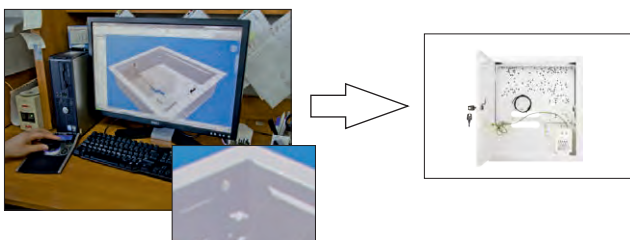
Screen printing



EMC laboratory



Design software: CAD "INVENTOR", ALTIUM DESIGNER



Buffer power supply units 13,8VDC / 27,6VDC / 48VDC / 54VDC switch mode HPSB series

GREEN POWER

- power supply: 176÷264VAC
- impulse voltage stabilizer
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection *
 - surge protection
 - antisabotage protection
 - OHP overheat protection *
- warranty: 2 years from production date

* depending on model



Sample product:
HPSB3512C



LED optical indication



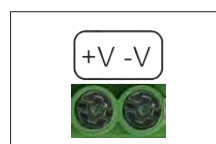
Tamper indicating enclosure
opening - 1 piece



Closing - front mounting
- 2 pieces



Power input
terminals



Power output
terminals



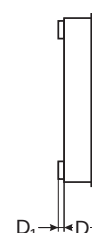
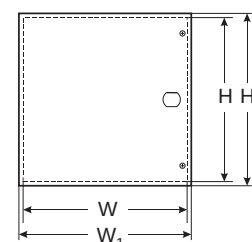
Distance from wall plastic
8mm (14mm*)

Code	Output voltage	Total current	Battery charging current	Fitting battery	Dimensions W×H×D+D ₁ [± 2mm]
HPSB1512B	13,8VDC	1,5A	0,5A	7Ah	200×230×82+8
HPSB2512B		2,5A	0,5A	7Ah	250×250×82+8
HPSB3512B		3,5A	0,5A	7Ah	
HPSB3512C		3,5A	0,5A	17Ah	280×292×82+8
HPSB5512C		5,5A	0,5A	17Ah	
HPSB7012C		7,0A	1,0A / 2,0A	17Ah	320×350×173+8
HPSB7012D		7,0A	1,0A / 2,0A	40Ah	
HPSB11A12C		11,0A	1,0A / 4,0A	17Ah	280×292×82+8
HPSB11A12D		11,0A	1,0A / 4,0A	40Ah	320×350×173+8
HPSB11A12E		11,0A	1,0A / 4,0A	65Ah	400×350×173+8
HPSB20A12E		20,0A	2,0A / 4,0A / 8,0A	65Ah	
HPSB1824B	27,6VDC	1,8A	0,3A	2×7Ah	280×292×82+8
HPSB3524B		3,5A	0,5A / 1,0A	2×7Ah	
HPSB3524C		3,5A	0,5A / 1,0A	2×17Ah	400×350×92+8
HPSB5524C		5,5A	0,5A / 2,0A	2×17Ah	
HPSB10A24C		10,0A	1,0A / 2,0A / 4,0A	2×17Ah	420×373×183+14
HPSB10A24D		10,0A	1,0A / 2,0A / 4,0A	2×40Ah	
HPSB2548C	48VDC	2,5A	0,5A	2×17Ah	400×350×92+8
HPSB2548B	54VDC	2,5A	0,5A / 1,0A	4×7Ah	400×350×92+8
HPSB5048C		5,0A	0,5A / 1,0A / 2,0A	4×17Ah	420×375×183+14

Accessories:



**MPSB12 / MPSB24
MPSB48**
technical output module
OC and relay type



Buffer power supply units 13,8VDC / 27,6VDC switch mode, with technical outputs HPSBOC series

GREEN POWER plus

- power supply: 176÷264VAC
- impulse voltage stabilizer
- technical outputs OC and relay type:
 - EPS – 230V power failure AC
 - PSU – power supply failure
 - LoB – low battery voltage *
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection **
 - surge protection
 - antisabotage protection
 - OHP overheat protection **
- warranty: 2 years from production date

* power supply unit does not feature battery detection function

** depending on model



Sample product:
HPSBOC3512C



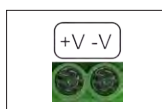
LED optical
indication



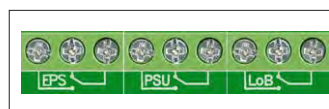
Tamper indicating
enclosure
opening - 1 piece



Power input
terminals



Power output
terminals



Technical outputs (relay)

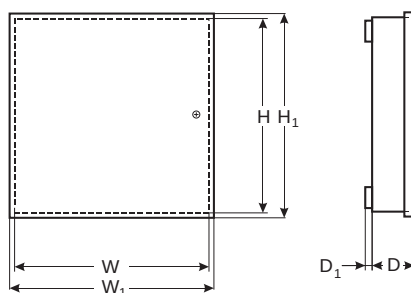


Technical outputs
OC type



Distance from wall
plastic 8mm

Code	Output voltage	Total current	Battery charging current	Fitting battery	Dimensions W×H×D+D ₁ [± 2mm] W ₁ ×H ₁ [± 2mm]
HPSBOC2512B	13,8VDC	2,5A	0,5A	7Ah	250×250×82+8 255×255
HPSBOC3512C		3,5A	0,5A	17Ah	280×292×82+8 285×296
HPSBOC7012C		7,0A	1,0A / 2,0A	17Ah	
HPSBOC11A12C		11,0A	1,0A / 4,0A	17Ah	
HPSBOC3524C	27,6VDC	3,5A	0,5A / 1,0A	2×17Ah	400×350×92+8 405×355
HPSBOC5524C		5,5A	0,5A / 2,0A	2×17Ah	
HPSBOC10A24C		10,0A	1,0A / 2,0A / 4,0A	2×17Ah	



Buffer power supply units 13,8VDC linear AWZ series

GREY POWER

- power supply: 230VAC
- linear type
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OHP overheat protection
 - surge protection
 - antisabotage protection
- warranty: 5 years from production date



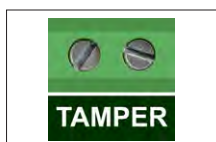
Sample product:
AWZ300



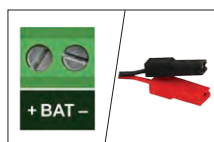
LED optical indication



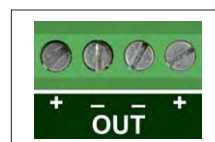
Tamper indicating enclosure
opening - 1 piece



Output indicating enclosure
opening



Battery connectors

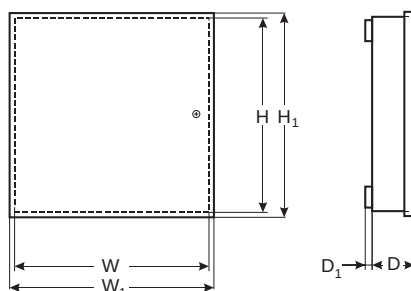


DC power supply output



Distance from wall
(plastic) - 8mm

Code	Output voltage	Total current	Battery charging current	Fitting battery	Dimensions $W \times H \times D + D_1$ [± 2mm] $W_1 \times H_1$ [± 2mm]
AWZ100	13,8VDC	1,0A	0,1A	1,2Ah	170×180×82+8 175×185
AWZ101		1,0A	0,1A	7Ah	200×230×82+8 205×235
AWZ200		2,0A	0,3A	7Ah	
AWZ300		3,0A	0,7A	17Ah	230×300×92+8 235×305



Buffer power supply units 13,8VDC / 27,6VDC, linear, in accordance with EN50131-6, GRADE 1÷2 standard for alarm systems AWZ plus series

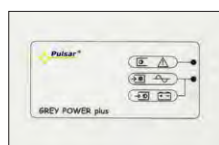
GREY POWER plus

- power supply: 230VAC
- linear type
- microprocessor-based operating control
- in accordance with EN50131-6, GRADE 1÷2 standard for alarm systems and II environmental class
- technical outputs OC type:
 - EPS – 230V power failure AC
 - PSU – power supply failure
 - APS – battery failure indication
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OHP overheat protection
 - surge protection
 - antisabotage protection
 - OVP overvoltage protection
- warranty: 5 years from production date



Sample product:
AWZ333

In accordance with EN50131-6, GRADE 1÷2 standard for alarm systems



LED optical indication



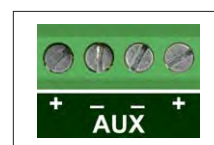
Tamper indicating enclosure opening – 1 piece



Output indicating enclosure opening



Technical outputs
OC type



DC power supply output



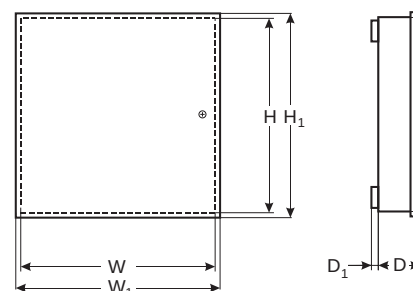
Distance from wall (plastic)
– 8mm

Code	Output voltage	Total current	Battery charging current	Fitting battery	Dimensions W×H×D+D ₁ [± 2mm] W ₁ ×H ₁ [± 2mm]
AWZ230	13,8VDC	2,0A	0,4A / 0,9A	7Ah	230×230×82+8 235×235
AWZ222		2,0A	0,4A / 0,9A	17Ah	230×300×82+8 235×305
AWZ333		3,0A	0,4A / 0,9A	17Ah	
AWZ224	27,6VDC	2,0A	0,4A	2×7Ah	

Accessories:



MPSBS
technical relay outputs



Buffer power supply units 13,8VDC switch mode, with technical outputs PSBS series

BLUE POWER

- power supply: 230VAC
- impulse voltage stabilizer
- technical outputs OC type:
 - EPS – 230V power failure AC
 - PSU – power supply failure
 - LoB – low battery voltage
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OHP overheat protection
 - surge protection
 - antisabotage protection
 - OVP overvoltage protection *
- warranty: 5 years from production date

* depending on model



Sample product:
PSBS2012B



LED optical indication



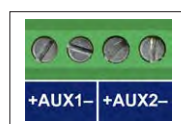
Tamper – unwanted opening of enclosure, detachment from mounting surface – 2 pieces



Technical outputs OC type



Battery connectors



DC power output



Closing – front mounting – 2 pieces



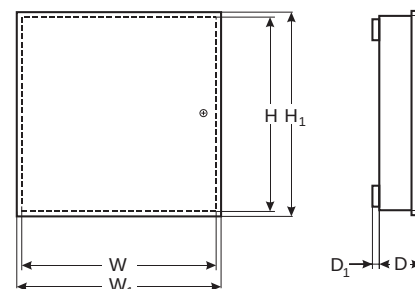
Distance from wall (plastic) – 8mm

Code	Output voltage	Total current	Battery charging current	Fitting battery	Dimensions W×H×D+D ₁ [± 2mm] W ₁ ×H ₁ [± 2mm]
PSBS2012B	13,8VDC	2,2A	0,2A / 0,5A	7Ah	230×230×82+8 235×235
PSBS3012C		3,5A	0,5A / 1,0A	17Ah	260×300×92+8 265×305
PSBS5012C		5,5A	0,5A / 1,0A / 2,0A / 3,0A	17Ah	330×350×102+8 335×355
PSBS5012D		5,5A	0,5A / 1,0A / 2,0A / 3,0A	40Ah	330×350×172+8 335×355

Accessories:



MPSBS
technical relay outputs



Buffer power supply units 13,8VDC / 27,6VDC, switch mode, in accordance with EN50131-6, GRADE 1÷3 standard for alarm systems PSBEN series

BLACK POWER

- power supply: 230VAC
- impulse voltage stabilizer
- microprocessor-based operating control
- in accordance with EN50131-6, GRADE 1÷3 standard for alarm systems and II environmental class
- intelligent management of PSU power's output stage
- battery circuit continuity control
- battery fuse status control
- collective failure input EXT IN
- technical outputs with galvanic isolation:
 - EPS - 230V power failure AC
 - PSU - power supply failure
 - APS - battery failure indication
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - OHP overheat protection
 - surge protection
 - antisabotage protection (tamper anti door opening and detachment from mounting surface)
- warranty: **5 years from production date**



In accordance with EN50131-6,
GRADE 1÷3 standard for alarm
systems

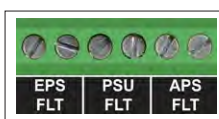
**MTP Gold Medal
Securex 2014**



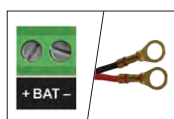
Tamper indicating
enclosure
opening - 1 piece



Tamper - detachment
from wall - 1 piece



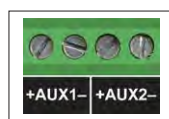
Technical outputs with
galvanic isolation



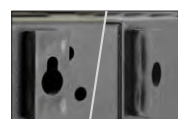
Battery connectors



Collective failure input
EXT IN



DC power supply
output



Distance from wall
(plastic) - 8mm

Buffer power supply units 13,8VDC / 27,6VDC, switch mode, in accordance with EN50131-6, GRADE 1÷3 standard for alarm systems PSBEN series

BLACK POWER



LED display



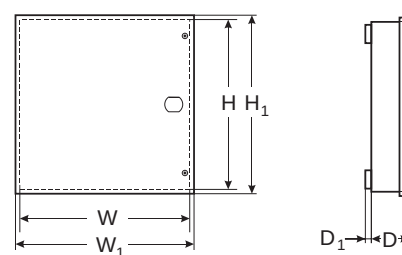
graphic LCD display

Code		Output voltage	Total current	Battery charging current	Fitting battery	Dimensions W×H×D+D ₁ [± 2mm] W ₁ ×H ₁ [± 2mm]
LED panel	LCD panel					
PSBEN3012C	—	13,8VDC	3,2A	0,2A / 0,6A / 1,0A / 1,5A	17Ah	300×300×92+8 305×305
PSBEN5012C	—		5,6A	0,6A / 1,5A / 2,2A / 3,0A	17Ah	330×350×102+8 335×355
PSBEN5012D	PSBEN5012D/LCD		5,6A	0,6A / 1,5A / 2,2A / 3,0A	40Ah	330×350×173+8 335×355
PSBEN10A12E	PSBEN10A12E/LCD		10,6A	0,6A / 1,5A / 2,2A / 3,0A	65Ah	400×370×173+8 405×375
PSBEN5024C	PSBEN5024C/LCD	27,6VDC	5,6A	0,6A / 1,5A / 2,2A / 3,0A	2×17Ah	400×350×92+8 405×355

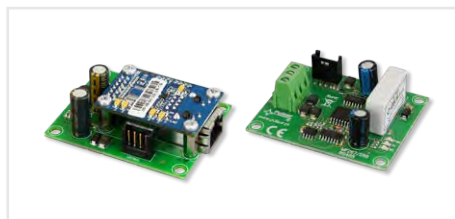


Free program „PowerSecurity”

Program for remote monitoring of parameters of power supplies of PSBEN, EN54



Accessories:



Interfaces (LAN, RS485)

Buffer power supply units 27,6VDC switch mode, EN54-4 and EN12101-10 certified EN54 series

RED POWER

- available versions with 2A / 3A / 5A / 7A current efficiencies
- available versions with a battery compartment for 7Ah - 40Ah battery
- communication: LAN, RS485, USB - appropriate modules required
- cooperation with EN54-LB4 and EN54-LB8 fuse modules (optional equipment)
- power supply: 230V
- impulse voltage stabilizer
- microprocessor-based operating control
- compliant with EN54-4 and EN12101-10 standards
- **certificate of constancy of performance CNBOP-PIB No 1438-CPR-0385**
- **certificate of approval CNBOP-PIB No 2174/2014**
- independently protected outputs AUX1 and AUX2
- intelligent PSU overload protection
- monitoring of continuity of battery circuit
- relay output of collective failure ALARM
- collective failure input EXTi
- **controlled relay output EXTo**
- **technical outputs with galvanic isolation:**
 - **EPS - 230V power failure AC**
 - **PSU - power supply failure**
 - **APS - battery failure indication**
- **internal memory of PSU operating status**
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - OHP overheat protection, surge protection
 - antisabotage protection (tamper anti door opening)
- warranty: **5 years from production date**

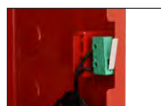


**MTP Gold Medal
Securex 2016**



Certificate of constancy of performance
CNBOP-PIB No 1438-CPR-0385

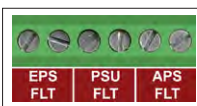
Certificate of approval
CNBOP-PIB No 2174/2014



Tamper indicating
enclosure
opening - 1 piece



Lock



Technical outputs with
galvanic isolation



Relay output of
collective failure
ALARM



Controlled relay
output EXTo



Collective failure
input EXTi



Battery connectors



Independently
protected outputs
AUX1 and AUX2

Buffer power supply units 27,6VDC switch mode, EN54-4 and EN12101-10 certified EN54 series

RED POWER



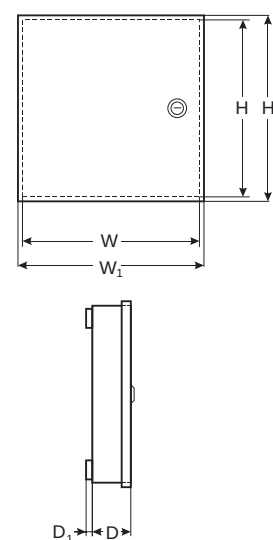
graphic LCD display

Cod	Output voltage	Total current		Fitting battery	Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
		for continuous operation I _{max a} + I _{lad}	for intermittent operation I _{max a} + I _{lad}		
EN54-3A17LCD	27,6VDC	2,0A + 1,0A	3,0A + 0A	2×17Ah	420×420×102+8 425×425
EN54-5A17LCD		4,0A + 1,0A	5,0A + 0A		
EN54-7A17LCD		6,0A + 1,0A	7,0A + 0A		
EN54-7A40LCD		5,0A + 2,0A		2×40Ah	420×420×182+8 425×425

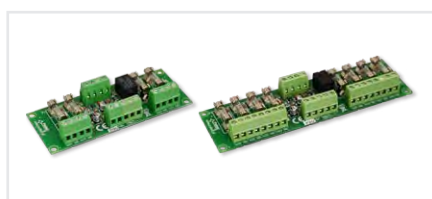


Free program „PowerSecurity”

Program for remote monitoring of parameters
of power supplies of PSBEN, EN54



Accessories:



Fuse modules
EN54-LB4, EN54-LB8



Interfaces (LAN, RS485)

Buffer power supply units 27,6VDC switch mode, EN54-4 and EN12101-10 certified EN54C series

RED POWER plus

- available versions with 2A / 3A / 5A / 10A current efficiencies
- available versions with a battery compartment for 7Ah - 65Ah battery
- communication: LAN, RS485 - appropriate modules required - only version with LCD graphic display
- cooperation with EN54C-LB4 and EN54C-LB8 fuse modules (optional equipment)
- cooperation with EN54C-LS4 and EN54C-LS8 sequential modules (optional)
- power supply: 230V
- impulse voltage stabilizer
- microprocessor-based operating control
- compliant with EN54-4 and EN12101-10 standards
- **certificate of constancy of performance CNBOP-PIB No 1438-CPR-0628**
- **certificate of approval CNBOP-PIB No 3501/2019**
- independently protected outputs AUX1 and AUX2
- monitoring of continuity of battery circuit
- relay output of collective failure ALARM
- input of external failure indication EXTi
- **EPS relay output of 230VAC power failure indication**
- **LoB low battery voltage indication**
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - antisabotage protection (tamper anti door opening)
- warranty: **3 years from production date**

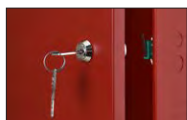


Certificate of constancy of performance
CNBOP-PIB No 1438-CPR-0628

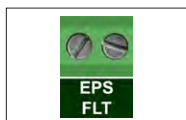
Certificate of approval
CNBOP-PIB No 3501/2019



Tamper indicating
enclosure
opening - 1 piece



Lock



EPS relay output of
230VAC power failure
indication



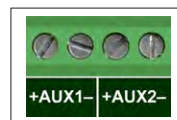
Relay output of collective
failure ALARM



Input of external failure
indication EXTi



Battery connectors



Independently protected
outputs
AUX1 and AUX2

Buffer power supply units 27,6VDC switch mode, EN54-4 and EN12101-10 certified EN54C series

RED POWER plus



LED display

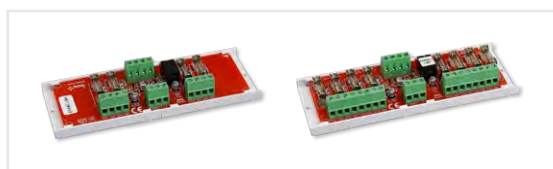


graphic LCD display *

Code		Output voltage	Total current		Fitting battery	Dimensions $W \times H \times D + D_1$ [+/- 2mm] $W_1 \times H_1$ [+/- 2mm]
LED panel	LCD panel *		for continuous operation $I_{max a} + I_{lad}$	for intermittent operation $I_{max a} + I_{lad}$		
EN54C-2A7	—	27,6VDC	1,6A + 0,4A	2A + 0A	2×7Ah	330×305×82+8 335×308
EN54C-2A17	—		1,2A + 0,8A	2A + 0A	2×17Ah	385×402×88+8 390×406
EN54C-3A7	—		2,6A + 0,4A	3A + 0A	2×7Ah	330×305×82+8 335×308
EN54C-3A17	EN54C-3A17LCD		2,2A + 0,8A	3A + 0A	2×17Ah	385×402×88+8 390×406
EN54C-3A28	—		1,8A + 1,2A	3A + 0A	2×28Ah	420×407×178+8 425×411
EN54C-5A7	—		4,6A + 0,4A	5A + 0A	2×7Ah	330×305×82+8 335×308
EN54C-5A17	EN54C-5A17LCD		4,2A + 0,8A	5A + 0A	2×17Ah	385×402×88+8 390×406
EN54C-5A28	—		3,8A + 1,2A	5A + 0A	2×28Ah	420×407×178+8 425×411
EN54C-5A40	—		3,2A + 1,8A	5A + 0A	2×40Ah	
EN54C-5A65	—		2,4A + 2,6A	5A + 0A	2×65Ah	410×648×180+8 416×652
EN54C-10A17	EN54C-10A17LCD		9,2A + 0,8A	10A + 0A	2×17Ah	385×402×88+8 390×406
EN54C-10A28	—		8,8A + 1,2A	10A + 0A	2×28Ah	420×407×178+8 425×411
EN54C-10A40	EN54C-10A40LCD		8,2A + 1,8A	10A + 0A	2×40Ah	
EN54C-10A65	—		7,4A + 2,6A	10A + 0A	2×65Ah	410×648×180+8 416×652

* Power supplies LCD series - available soon

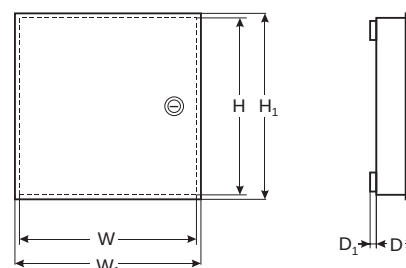
Accessories:



Fuse modules
EN54C-LB4, EN54C-LB8



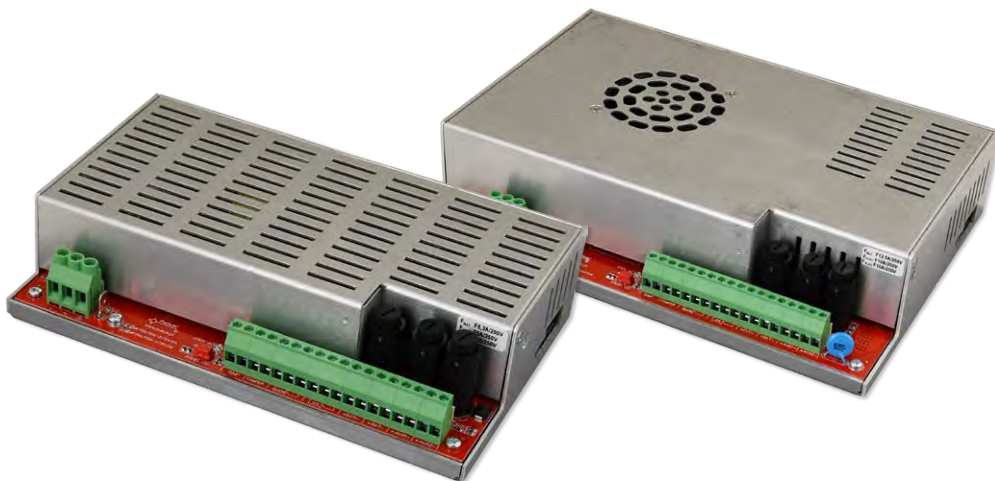
Sequential modules
EN54C-LS4, EN54C-LS8



Buffer power supply modules 27,6VDC switch mode, in accordance with EN54-4 standard for fire detection EN54M series

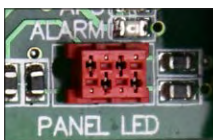
RED POWER plus

- built-in power supply module
- available versions with 2A / 3A / 5A / 10A current efficiencies
- powered by 7Ah÷65Ah batteries
- cooperation with EN54-LB4 and EN54-LB8 fuse modules (optional equipment)
- cooperation with EN54C-LS4 and EN54C-LS8 sequential modules (optional)
- DIN rail mounting using additional EN54M-DIN1 bracket (option)
- optical indication - additional EN54M-LED panel (optional)
- power supply: 230V
- impulse voltage stabilizer
- microprocessor-based operating control
- compliant with EN54-4 and EN12101-10 standards
- **certificate of constancy of performance CNBOP-PIB No 1438-CPR-0630**
- independently protected outputs AUX1 and AUX2
- monitoring of continuity of battery circuit
- relay output of collective failure ALARM
- **input of external failure indication EXTi**
- **EPS relay output of 230VAC power failure indication**
- **LoB low battery voltage indication**
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP overvoltage protection, surge protection
- warranty: **3 years from production date**



Certificate of constancy of performance
CNBOP-PIB No 1438-CPR-0630

To be able to install module of PSU in fire alarm system, it must be placed
in enclosure of appropriate design and make complementary examinations to achieve certificate
EN54-4+A1+A2 or EN12101-10+AC in accredited institution



LED socket



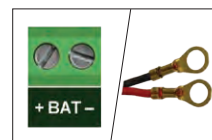
EPS relay output of 230VAC
power failure indication



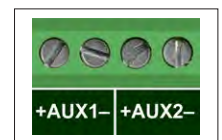
Relay output of collective
failure ALARM



Input of external failure
indication EXTi



Battery connectors



Independently protected
outputs
AUX1 and AUX2

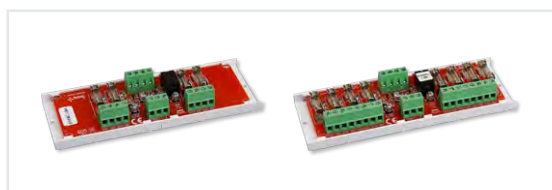
Buffer power supply modules 27,6VDC switch mode, EN54-4 certified EN54M series

RED POWER plus



Code	Output voltage	Total current		Battery	Dimensions L×W×H [+/- 2mm]
		for continuous operation $I_{max a} + I_{lad}$	for intermittent operation $I_{max a} + I_{lad}$		
EN54M-2A7	27,6VDC	1,6A + 0,4A	2A + 0A	2×7,2Ah	200×120×48
EN54M-2A7-17		1,2A + 0,8A	2A + 0A	2×7÷20Ah	
EN54M-3A7-17		2,2A + 0,8A	3A + 0A	2×7÷20Ah	
EN54M-3A17-40		1,2A + 1,8A	3A + 0A	2×17÷45Ah	
EN54M-5A7-17		4,2A + 0,8A	5A + 0A	2×7÷20Ah	204×141×52
EN54M-5A17-40		3,2A + 1,8A	5A + 0A	2×17÷45Ah	
EN54M-5A40-65		2,4A + 2,6A	5A + 0A	2×40÷65Ah	
EN54M-10A17-40		8,2A + 1,8A	10A + 0A	2×17÷45Ah	237×168×55
EN54M-10A40-65		7,4A + 2,6A	10A + 0A	2×40÷65Ah	

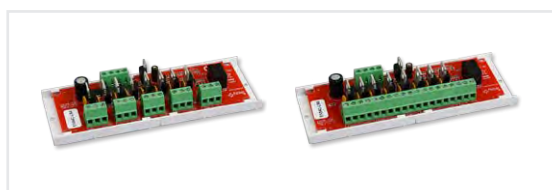
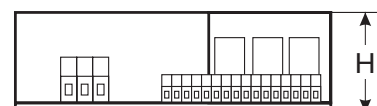
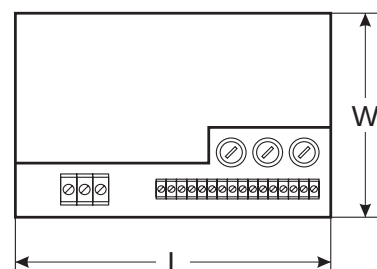
Accessories:



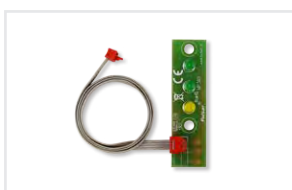
Fuse modules
EN54C-LB4, EN54C-LB8



EN54M-DIN1
Bracket DIN/EN54M 1



Sequential modules
EN54C-LS4, EN54C-LS8



EN54M-LED
Set for optical indication EN54M

Accessories for power supply units EN54C and EN54M series fuse modules, sequential modules

EN54C-LB4

LB4/0,5A/FTA fuse module EN54C



EN54C-LB8

LB8/0,5A/FTA fuse module EN54C



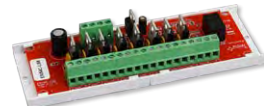
EN54C-LS4

sequential module for actuators
with return spring



EN54C-LS8

sequential module for actuators
without return spring



EN54M-DIN1

Bracket DIN/EN54M 1



EN54M-LED

A set for optical indication EN54M



EN54C-BR

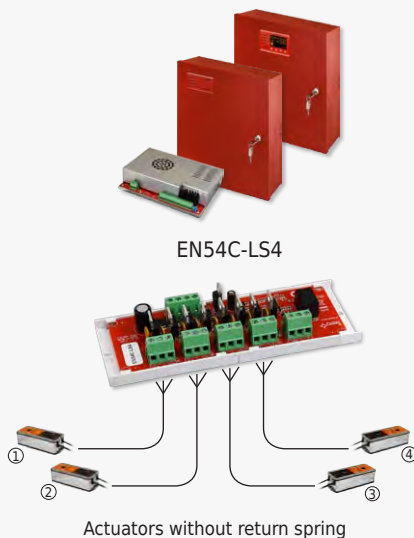
Brackets for EN54C included



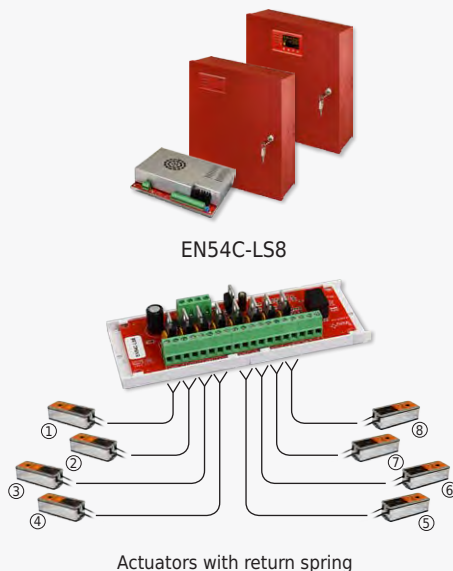
EN54C-LB4



EN54C-LS4



EN54C-LS8



Applies EN54C-...LCD

INTE-C

Interface ETHERNET EN54C-LCD



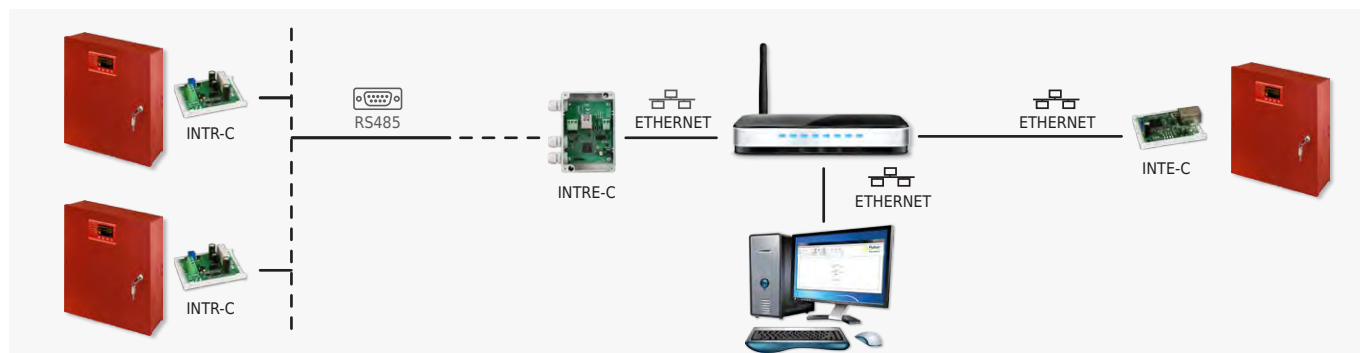
INTR-C

Interface RS485-TTL EN54C-LCD



INTRE-C

Interface RS485-ETHERNET



Accessories for power supply units PSBEN and EN54 series

Interfaces, fuse modules

INTR - Interface RS485-TTL



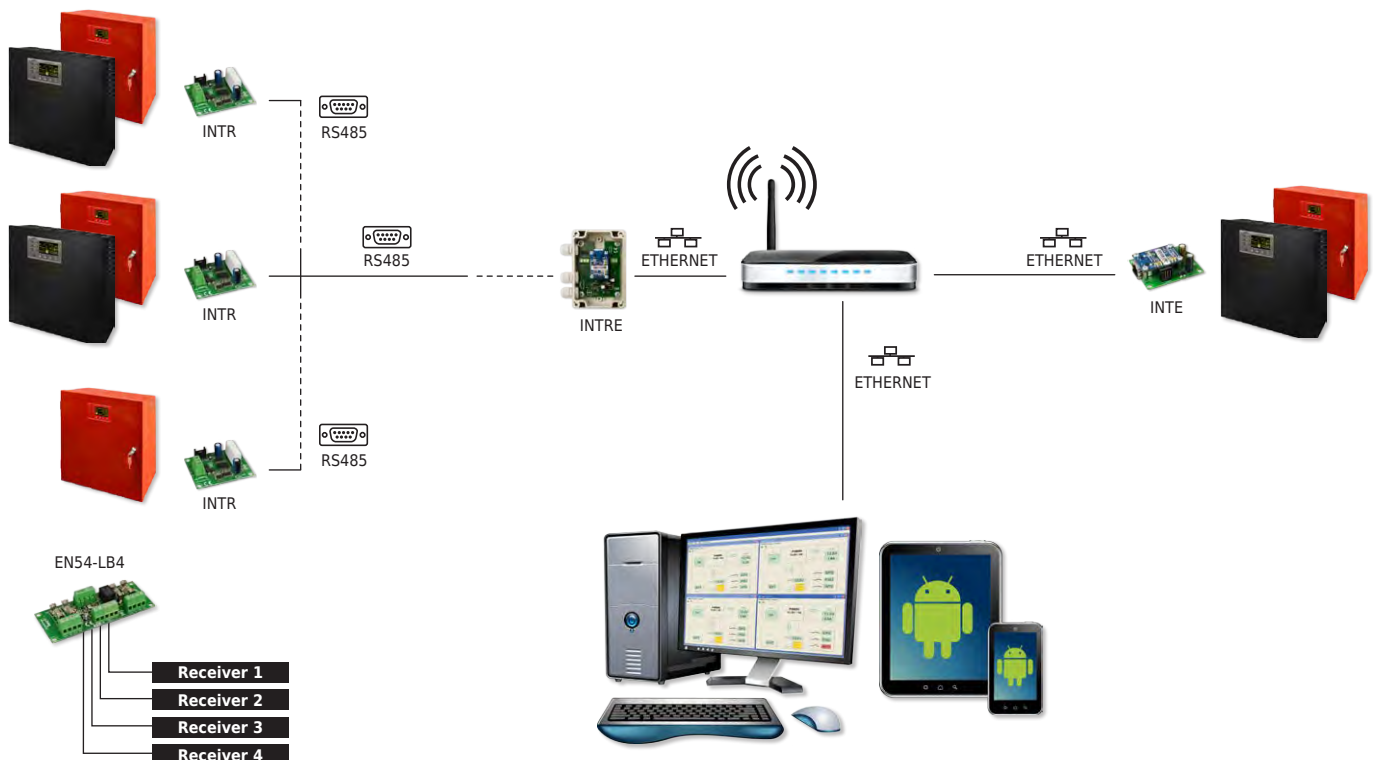
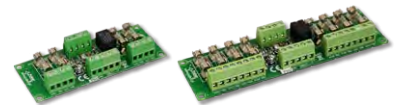
INTE - Interface ETHERNET



INTRE - Interface RS485-ETHERNET



EN54-LB4/8 - Fuse module EN54



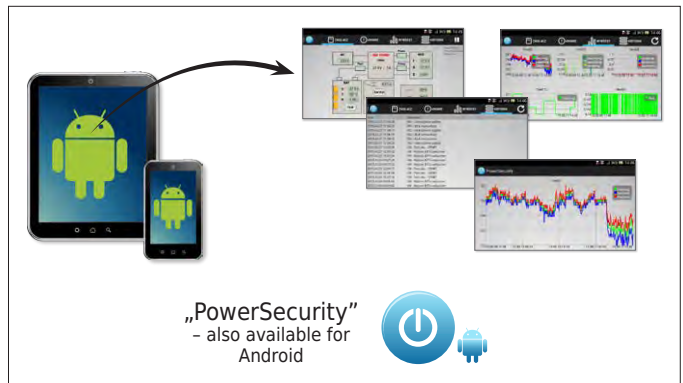
Free program
„PowerSecurity”



„PowerSecurity”
- also available for Android

„PowerSecurity” software for power supply units of PSBEN, EN54 series

PowerSecurity



For power supply units with LED display

Remote desktop window of PSU



Event log

Time from event	Value description	Unit	Sum
12h 20m PFI - AC power fail		13.1	0.8
0h 54m PFI - AC power fail		13.1	0.8
0h 54m PFI - AC power fail		13.1	0.8
0h 54m PFI - AC power fail		13.1	0.8
0h 54m PFI - AC power fail		13.1	0.8
0h 54m PFI - Low battery voltage		13.8	0.7
0h 57m PFI - Low battery voltage - off		13.8	0.7
0h 44m PFI - AC power fail		13.1	0.8
0h 44m PFI - AC power fail		13.1	0.8
0h 34m PFI - AC power fail		13.1	0.8
0h 32m PFI - AC power fail		13.1	0.8

For power supply units with LCD display

Remote desktop window of PSU



Event log

Date and Time	Value description	AC	LB	EXT	EPS	PSU	APS	Liban (AP)	Liban (AP)	Liban
2013-07-18 07:42:00	PFI - AC power fail	off	off	close	close	close	close	13.1	0.8	13.1
2013-08-05 06:14:20	PFI - AC power fail	off	off	close	close	close	close	13.1	0.8	13.1
2013-08-02 06:00:00	PFI - AC power fail	off	off	close	close	close	close	13.1	0.8	13.1
2013-09-28 04:00:00	PFI - AC power fail	off	off	close	close	close	close	13.1	0.8	13.1
2013-09-28 04:00:00	PFI - AC power fail	off	off	close	close	close	close	13.1	0.8	13.1
2013-09-28 04:00:00	PFI - AC power fail	off	off	close	close	close	close	13.1	0.8	13.1
2013-09-27 11:11:00	PFI - AC power fail	off	off	close	close	close	close	13.1	0.8	13.1
2013-09-27 11:00:00	PFI - AC power fail	off	off	close	close	close	close	13.1	0.8	13.1
2013-07-07 12:17:14	PFI - AC power fail	off	off	close	close	close	close	13.1	0.8	13.1
2013-07-07 12:17:14	PFI - AC power fail	off	off	close	close	close	close	13.1	0.8	13.1

History of parameters



PowerSecurity is a program allowing a remote monitoring of power supply units of PSBEN or EN54 series equipped with a communication interface. Application allows to configure connections, analyze current parameters and to manage groups of power supply units.

Power supply units of PSBEN series

For power supply units of PSBEN series, remote desktop window allows monitoring following parameters:

- voltage and current at AUX output of power supply units
- 230V mains supply status
- voltage and battery charging level (optional remote battery test)
- status of technical outputs (EPS, PSU, APS)
- status of input of collective failure - EXTi

Additionally, it is possible to read history of events and in case of power supply units fitted with LCD display to read, history of parameters.

Power supply units of EN54 series

For power supply units of EN54 series, remote desktop window allows monitoring following parameters:

- voltage at AUX1 and AUX2 outputs and total current
- status and value of 230V mains supply
- voltage, battery level, temperature and internal resistance of battery, optional remote battery test
- status of technical outputs (EPS, PSU, APS, Alarm)
- status of input of collective failure EXTi
- status of controlled relay output EXT0
- status of TAMPER input

Additionally, it is possible to read history of events and in case of power supply units fitted with LCD display to read, history of parameters.

Buffer power supply units 13,8VDC switch mode, power supply unit for Access Control Systems AWZ series

- power supply: 200÷240VAC
- impulse voltage stabilizer
- deep discharge battery protection (UVP)
- technical outputs OC and relay type:
 - EPS – AC power failure
 - LoB – low battery voltage
 - PSU – power supply failure
- number of DIN rails / length / number of „S” fields: 1 / 185mm / 10
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP overvoltage protection, surge protection
 - antisabotage protection
- dedicated to mounting controllers:
 - **Dahua ASC2104B-T, ASC2102B-T (and similar)**
- warranty: 2 years from production date



AWZ637



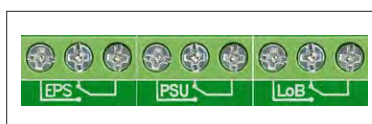
LED optical indication



Tamper indicating enclosure opening – 1 piece



Closing – front mounting – 2 pieces



Technical outputs (relay)



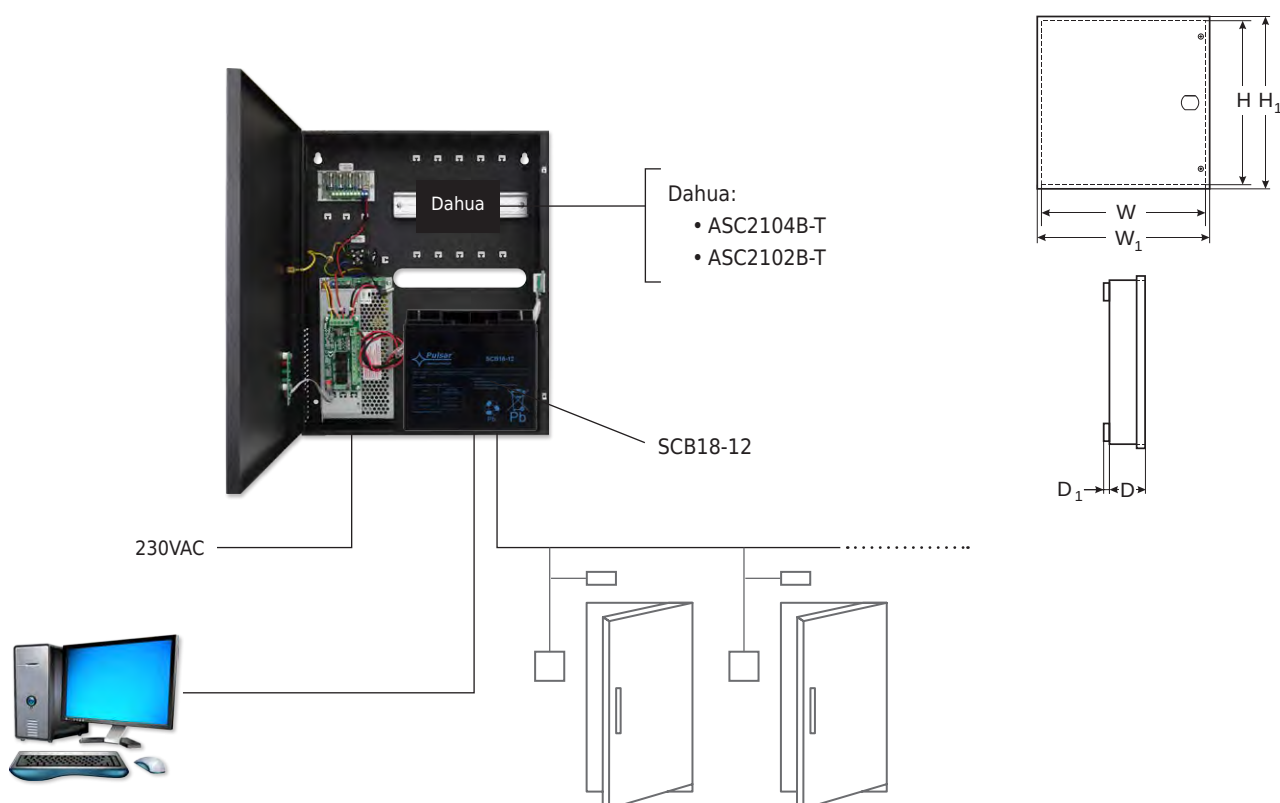
Technical outputs OC type



Distance from wall plastic 8mm

Code	Output voltage	Total current	Battery charging current	Fitting battery	Number of DIN rails / length / number of „S” fields	Dimensions W×H×D+D ₁ [+/- 2mm]
AWZ637	13,8VDC	6A	1,0A / 2,0A	17Ah	1 / 185mm / 10	320×397×92+8

AWZ637



Buffer power supply units 13,8VDC switch mode, with technical outputs, IP65 hermetic enclosure PSBSH series

- power supply: 230VAC
- switch mode type
- IP65 hermetic enclosure, ABS
- technical outputs OC type:
 - EPS – 230V power failure AC
 - PSU – power supply failure
 - LoB – low battery voltage
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OHP overheat protection
 - surge protection
 - antisabotage protection
- warranty: 2 years from production date



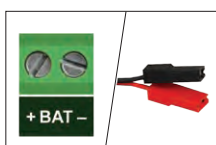
PSBSH2012B



Tamper indicating enclosure opening – 1 piece



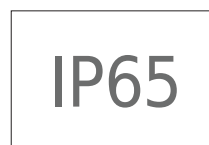
AC power input



Battery connectors



Technical outputs OC type



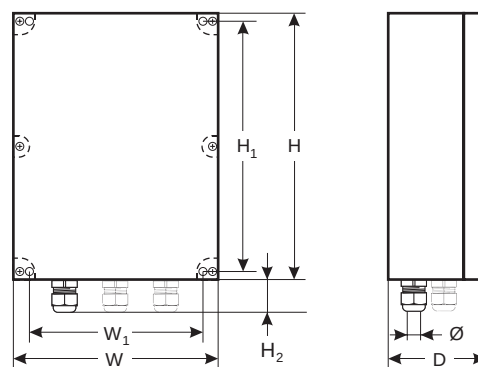
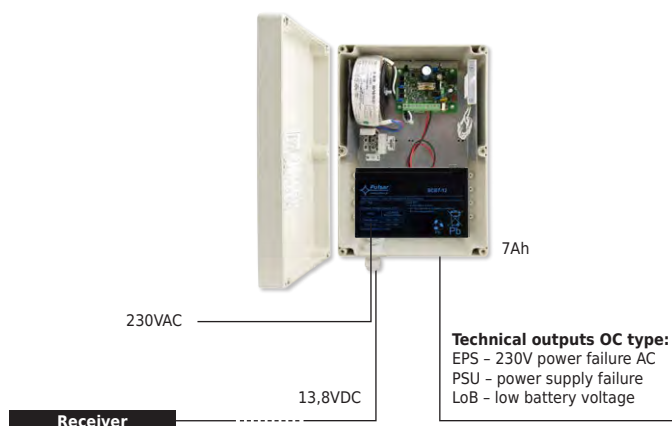
Hermetic enclosure IP65



Material: ABS

Code	Output voltage	Total current	Battery charging current	Fitting battery	Number of cable glands / Ø cables	Mounting dimensions W ₁ ×H ₁ [± 2mm]	Dimensions W×H×D [± 2mm] H ₂ [± 2mm]
PSBSH2012B	13,8VDC	2,0A	0,2A / 0,5A	7Ah	2 pcs / 4÷8mm	152×252	184×264×95 25

PSBSH2012B



e.g. alarm control panel

Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

12V Batteries

Maintenance Free Batteries

HPB series



designed
lifetime 5÷8 years

SCB series



designed
lifetime 3÷5 years

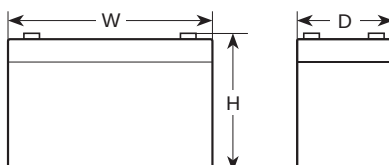
STB series



designed
lifetime 2÷3 years

- dedicated for:
 - power supplies for fire alarm systems: EN54 / EN54C / EN54M series
 - I&HAS power supply: PSBEN series
 - voice alarm systems: DSOP24V
 - Security systems (CCTV, AC, IDS)
 - UPS power supply
 - automatics
- dedicated for:
 - Security systems (CCTV, AC, IDS)
 - UPS power supply
 - automatics
- dedicated for:
 - Security systems (CCTV, AC, IDS)

	Code	Output voltage	Rated capacity (C ₂₀)	Charging current		Charging voltage in 25°C		Dimensions W x H x D [÷/-2mm]
				recommended	maximum	Buffer operation	Cyclic operation	
HPB series	HPB1,2-12	12VDC	1,2Ah	0,13A	0,36A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	98 x 59 x 44
	HPB2,3-12	12VDC	2,3Ah	0,23A	0,69A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	178 x 68 x 35
	HPB5-12	12VDC	5Ah	0,5A	1,5A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	90 x 106 x 70
	HPB7-12	12VDC	7Ah	0,7A	2,1A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	152 x 100 x 65
	HPB18-12	12VDC	18Ah	1,8A	5,4A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	182 x 168 x 77
	HPB28-12	12VDC	28Ah	2,6A	7,8A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	175 x 125 x 166
	HPB40-12	12VDC	40Ah	4A	12A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	197 x 171 x 166
	HPB55-12	12VDC	55Ah	5,5A	16,5A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	229 x 211 x 138
	HPB65-12	12VDC	65Ah	6,5A	19,5A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	349 x 178 x 167
	HPB80-12	12VDC	80Ah	8A	24A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	269 x 215 x 168
	HPB100-12	12VDC	100Ah	10A	30A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	330 x 219 x 171
	HPB120-12	12VDC	120Ah	12A	36A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	409 x 234 x 175
	HPB160-12	12VDC	160Ah	16A	48A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	530 x 213 x 208
	HPB200-12	12VDC	200Ah	20A	60A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	524 x 222 x 238
SCB series	SCB1,2-12	12VDC	1,2Ah	0,12A	0,36A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	98 x 59 x 44
	SCB2,3-12	12VDC	2,3Ah	0,23A	0,69A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	178 x 68 x 35
	SCB3,6-12	12VDC	3,6Ah	0,36A	1,08A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	133 x 65 x 65
	SCB4,5-12	12VDC	4,5Ah	0,45A	1,35A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	90 x 106 x 70
	SCB7-12	12VDC	7Ah	0,7A	2,1A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	152 x 100 x 65
	SCB12-12	12VDC	12Ah	1,2A	3,6A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	150 x 100 x 98
	SCB18-12	12VDC	18Ah	1,8A	5,4A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	182 x 168 x 77
	SCB28-12	12VDC	28Ah	2,8A	8,4A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	175 x 125 x 166
	SCB40-12	12VDC	40Ah	4A	12A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	197 x 171 x 166
	SCB65-12	12VDC	65Ah	6,5A	19,5A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	349 x 178 x 167
	SCB100-12	12VDC	100Ah	10A	30A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	330 x 219 x 171
STB series	STB7-12	12VDC	7Ah	0,7A	2,1A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	152 x 100 x 65
	STB18-12	12VDC	18Ah	1,8A	5,4A	13,5VDC ÷ 13,8VDC	14,4VDC ÷ 14,9VDC	182 x 168 x 77



Enclosed power supply units 12VDC / 48VDC switch mode PS series

- power supply: 85÷264VAC / 120÷370VDC / 176÷264VAC *
- impulse voltage stabilizer
- adjustable output voltage 12÷15V / 48÷53V *
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- warranty: 2 years from production date

* depending on model



Sample product:
PS-1001270



Power input
terminals



Power output
terminals

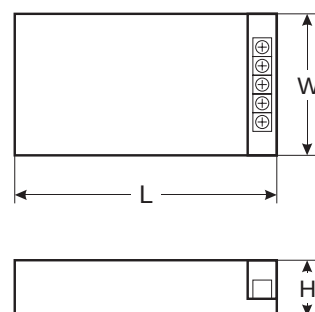


Potentiometer for output
voltage adjustment



Enclosure:
perforated sheet
- convective cooling

Code	Output voltage	Voltage adjustment	Output current	Dimensions LxWxH [+/- 2mm]
PS-151210	12VDC	12÷15V	1,0A	85×60×37
PS-251220		12÷15V	2,0A	110×78×36
PS-401230		12÷15V	3,0A	129×98×38
PS-601250		12÷15V	5,0A	159×97×38
PS-1001270		12÷15V	7,0A	199×98×38
PS-15012100		12÷15V	10,0A	199×110×50
PS-20012140		12÷15V	14,0A	226×115×50
PS-604812	48VDC	48÷53V	1,2A	159×97×38
PS-1504830		48÷53V	3,0A	199×110×50



Accessories:



PSDIN1 / PSDIN2
Bracket DIN



AWO384 / AWO385
enclosures for power supplies

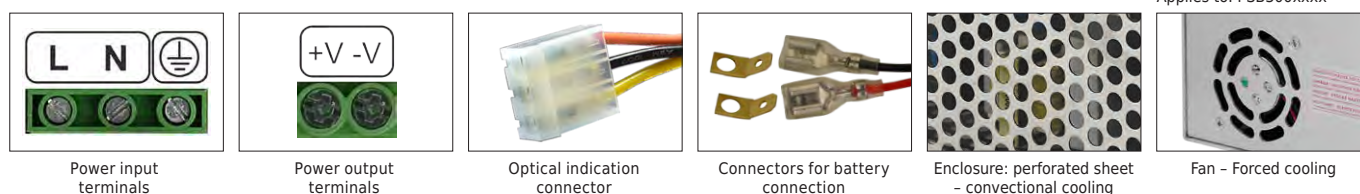
Enclosed buffer power supply units 13,8VDC / 27,6VDC / 54VDC switch mode PSB series

- power supply: 176÷264VAC
- impulse voltage stabilizer
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - OHP overheat protection *
- warranty: 2 years from production date

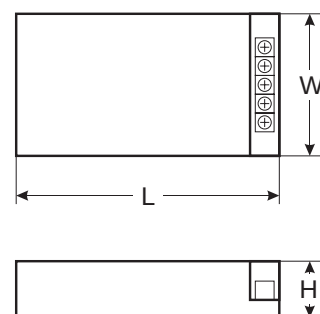
* depending on model



Sample product:
PSB-1001270



Code	Output voltage	Total current	Battery charging current	Dimensions L×W×H [+/- 2mm]
PSB-251215	13,8VDC	1,5A	0,5A	110×78×36
PSB-351225		2,5A	0,5A	129×98×40
PSB-501235		3,5A	0,5A	159×97×42
PSB-751250		5,0A	0,5A	
PSB-1001270		7,0A	1,0A / 2,0A	199×97×42
PSB-15512110		11,0A	1,0A / 4,0A	199×110×50
PSB-30012200		20,0A	2,0A / 4,0A / 8,0A	275×115×50
PSB-502418	27,6VDC	1,8A	0,3A	159×97×42
PSB-1002435		3,5A	0,5A / 1,0A	199×97×42
PSB-1552455		5,5A	0,5A / 2,0A	199×110×50
PSB-30024100		10,0A	1,0A / 2,0A / 4,0A	275×115×50
PSB-1554828	54VDC	2,8A	0,5A / 1,0A	199×110×50
PSB-3004850		5,0A	0,5A / 1,0A / 2,0A	275×115×50



Accessories:



PSDIN1 / PSDIN2
Bracket DIN



MPSB12 / MPSB24 / MPSB48
technical output module OC and relay type

Enclosed buffer power supply units 13,8VDC / 27,6VDC switch mode, with technical outputs PSBOC series

- power supply: 176÷264VAC
- impulse voltage stabilizer
- technical outputs OC and relay type:
 - EPS – 230V power failure AC
 - PSU – power supply failure
 - LoB – low battery voltage
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - OHP overheat protection *
- warranty: 2 years from production date

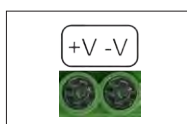
* depending on model



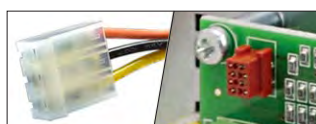
Sample product:
PSBOC1001270



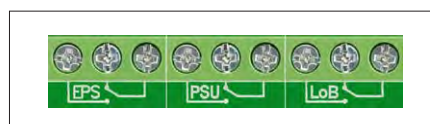
Power input
terminals



Power output
terminals



Optical indication connector

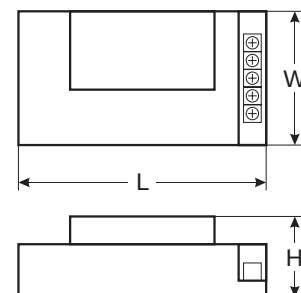


Technical outputs (relay)



Technical outputs
OC type

Code	Output voltage	Total current	Battery charging current	Technical outputs	Dimensions L×W×H [+/- 2mm]
PSBOC351225	13,8VDC	2,5A	0,5A	✓	129×98×67
PSBOC501235		3,5A	0,5A	✓	159×97×68
PSBOC751250		5,0A	0,5A	✓	
PSBOC1001270		7,0A	1,0A / 2,0A	✓	199×97×70
PSBOC15512110		11,0A	1,0A / 4,0A	✓	199×110×78
PSBOC30012200		20,0A	2,0A / 4,0A / 8,0A	✓	275×115×78
PSBOC1552455	27,6VDC	5,5A	0,5A / 2,0A	✓	199×110×78



Accessories:



PSDIN1 / PSDIN2
Bracket DIN

Table of switches

Code	Number of ports: PoE	UPLINK		COMBO	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	Management switch	Power supply	Brackets for mounting to surface			Mounting brackets for RACK 19"	DIN rail brackets	Dimensions W×H×D [+/- 2mm]
		ports RJ45	sockets SFP					✓	/	—			

64

S64	4 - 100 Mb/s	2 - 100 Mb/s	—	—	✓ (ports 1+4)	—	52VDC / 1,15A desktop	✓	/	—	/	—	118×28×85
SG64	4 - 1 Gb/s	2 - 1 Gb/s	—	—	—	—	52VDC / 1,15A desktop	✓	/	—	/	—	118×28×85
SFG64	4 - 1 Gb/s	—	2 - 1 Gb/s	—	—	—	52VDC / 1,15A desktop	✓	/	—	/	—	118×28×95
SFG64F1	4 - 1 Gb/s	1 - 1 Gb/s	1 - 1 Gb/s	—	—	—	52VDC / 1,15A desktop	✓	/	—	/	—	118×28×95
SF64M **	4 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	✓	—	✓	52VDC / 1,15A desktop	✓	/	✓	/	—	220×44×150

108

S108-90W	8 - 100 Mb/s	2 - 100 Mb/s	—	—	✓ (ports 1+8)	—	52VDC / 1,75A desktop	✓	/	—	/	—	190×28×105
S108	8 - 100 Mb/s	2 - 100 Mb/s	—	—	✓ (ports 1+8)	—	52VDC / 2,3A desktop	✓	/	—	/	—	190×28×105
SG108-90W	8 - 1 Gb/s	2 - 1 Gb/s	—	—	—	—	52VDC / 1,75A desktop	✓	/	—	/	—	190×27×105
SG108	8 - 1 Gb/s	2 - 1 Gb/s	—	—	—	—	52VDC / 2,3A desktop	✓	/	—	/	—	190×27×105
SF108-90W	8 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	✓	—	—	52VDC / 1,75A desktop	✓	/	✓	/	—	220×44×150
SF108	8 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	✓	—	—	52VDC / 2,3A desktop	✓	/	✓	/	—	220×44×150
SFG10F8	—	2 - 1 Gb/s	8 - 1 Gb/s	—	—	—	12VDC / 2A desktop	✓	/	✓	/	—	221×29×115
SF108M **	8 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	✓	—	✓	52VDC / 2,3A desktop	✓	/	✓	/	—	270×44×187

116

S116	16 - 100 Mb/s	2 - 1 Gb/s	—	—	✓ (ports 9+16)	—	230VAC	✓	/	✓	/	—	270×44×181
SF116	16 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	✓	—	—	230VAC	—	/	✓	/	—	442×44×224
SF116M **	16 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	✓	—	✓	230VAC	—	/	✓	/	—	442×44×290

124

S124	24 - 100 Mb/s	2 - 1 Gb/s	—	—	✓ (ports 17+24)	—	230VAC	✓	/	✓	/	—	330×44×204
SF124	24 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	✓	—	—	230VAC	—	/	✓	/	—	442×44×224

ISFG, ISF series without power supply unit, with SFP socket, industrial

ISFG42	2 - 1 Gb/s	—	2 - 1 Gb/s	—	—	—	48+57VDC / 50W external power supply	—	/	—	/	✓	30×128×112
ISFG64	4 - 1 Gb/s	—	2 - 1 Gb/s	—	—	—	48+57VDC / 75W external power supply	—	/	—	/	✓	30×128×112
ISF108	8 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	✓	—	—	48+57VDC / 120W external power supply	—	/	—	/	✓	54×176×153

Legend:

4 - 100 Mb/s — mark of number of ports 100 Mb/s

8 - 1 Gb/s — mark of number of ports 1 Gb/s

** available from: 2st 2020

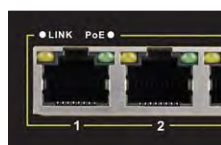
PoE switches for IP cameras with power supply S series

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports – data transfer and power supply
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s
- 30W for each PoE port – 52VDC (PoE+)
- UPLINK ports: 2 ports – for recorder / switch / computer installation
- desktop type power supply supplied with switch *
- additional mounting elements:
 - brackets for mounting to surface *
 - mounting brackets for RACK 19" *
- warranty: 2 years from production date

* depending on model



Sample product:
S108



PoE ports



2 x UPLINK ports



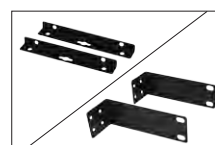
Switch
(Long Range mode)



RJ45 connectors



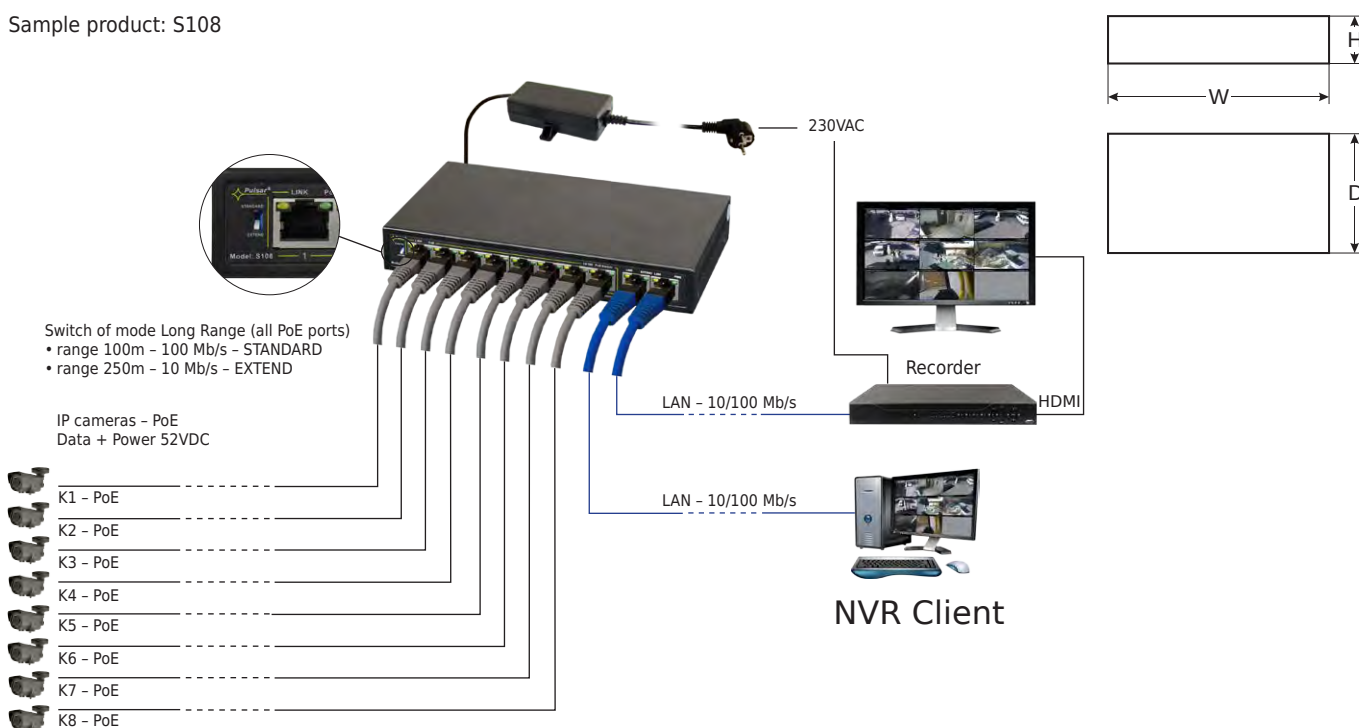
Desktop type power supply
supplied with switch *



Brackets for mounting
to surface
/ mounting brackets for
RACK 19" included *

Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	Number of ports: UPLINK	Power supply	Brackets for mounting to surface /	Mounting brackets for RACK 19"	Dimensions W×H×D [+/- 2mm]
S64	4 - 100 Mb/s	✓ (ports 1÷4)	2 - 100 Mb/s	52VDC / 1,15A desktop	✓ / —	—	118×28×85
S108-90W	8 - 100 Mb/s	✓ (ports 1÷8)		52VDC / 1,75A desktop	✓ / —	—	190×28×105
S108		✓ (ports 1÷8)		52VDC / 2,3A desktop	✓ / —	—	
S116	16 - 100 Mb/s	✓ (ports 9÷16)	2 - 1 Gb/s	230VAC	✓ / ✓	✓	270×44×181
S124	24 - 100 Mb/s	✓ (ports 17÷24)			— / ✓	✓	330×44×204

Sample product: S108



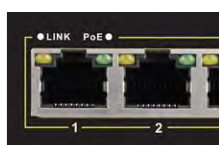
PoE switches for IP cameras with power supply SG series

- supports devices compliant with IEEE 802.3af/at standard
- 1 Gb/s ports
- PoE ports – data transfer and power supply
- 30W for each PoE port – 52VDC (PoE+)
- UPLINK ports: 2 ports – for recorder / switch / computer installation
- desktop type power supply supplied with switch
- additional mounting elements:
 - brackets for mounting to surface
- warranty: 2 years from production date

* depending on model



Sample product:
SG108



PoE ports



2 x UPLINK ports



RJ45 connectors
– input / output



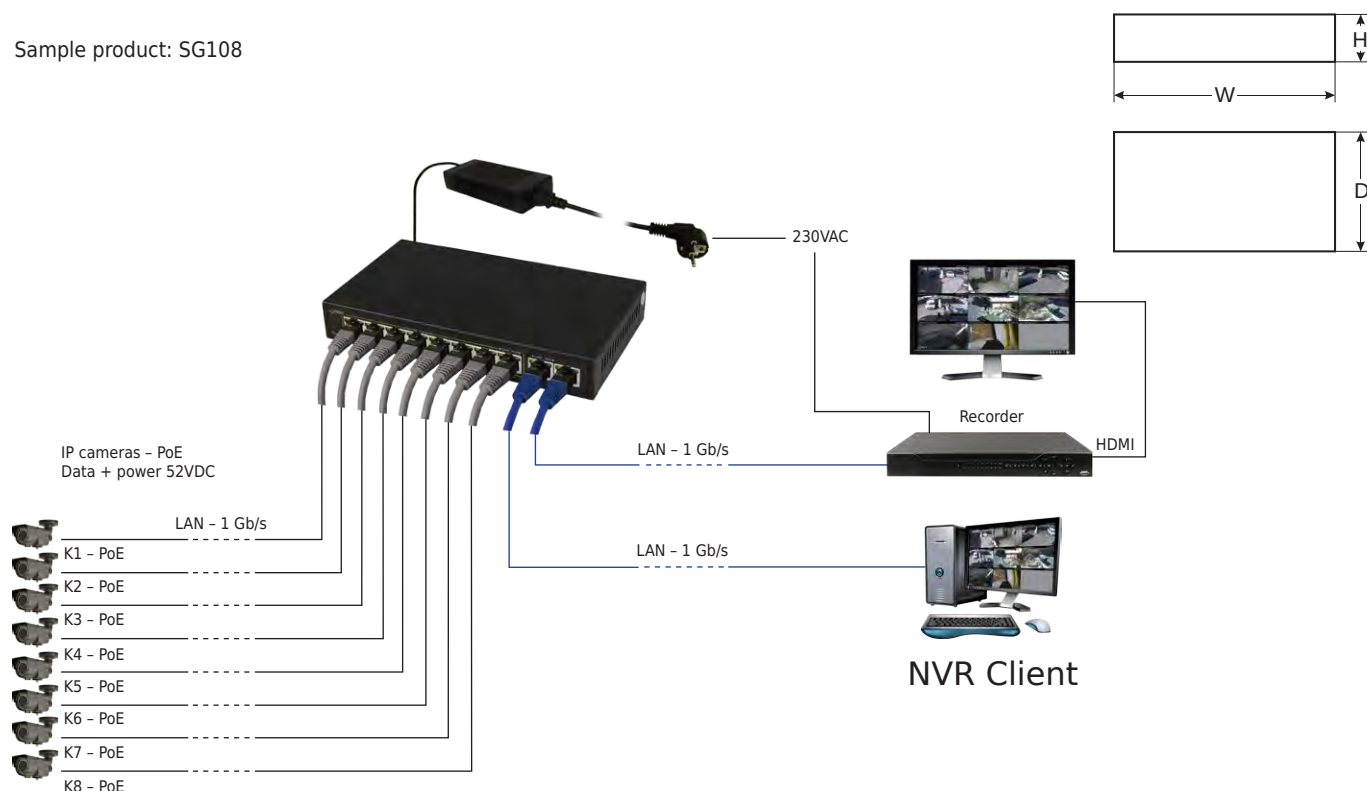
Desktop type power supply
supplied with switch



Brackets for mounting to
surface

Code	Number of ports: PoE	Number of ports: UPLINK	Power supply	Brackets for mounting to surface	Dimensions W×H×D [± 2mm]
SG64	4 – 1 Gb/s	2 – 1 Gb/s	52VDC / 1,15A desktop	✓	118×28×85
SG108-90W	8 – 1 Gb/s		52VDC / 1,75A desktop	✓	190×27×105
SG108	8 – 1 Gb/s		52VDC / 2,3A desktop	✓	190×27×105

Sample product: SG108



PoE switches for IP cameras with power supply, with SFP sockets SF series

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports
- PoE ports – data transfer and power supply
- 30W for each PoE port – 52VDC (PoE+)
- UPLINK ports: 2 ports – for recorder / switch / computer installation
- desktop type power supply supplied with switch *
- additional mounting elements:
 - brackets for mounting to surface *
 - mounting brackets for RACK 19"
- warranty: 2 years from production date

* depending on model



Sample product:
SF116



PoE ports



2 x UPLINK ports



RJ45 connectors



Desktop type power supply
supplied with switch *



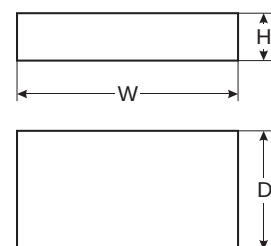
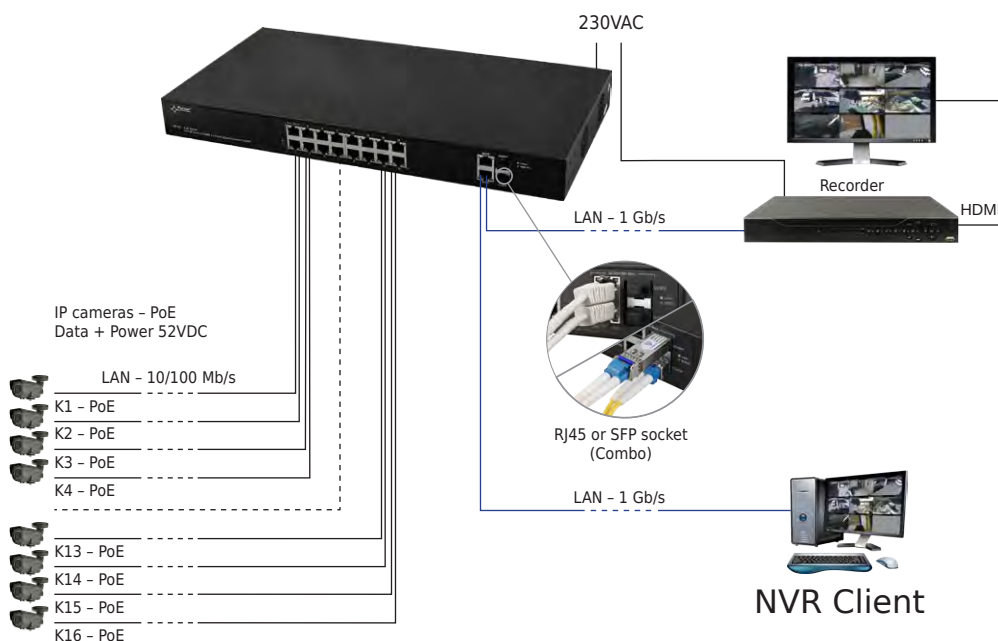
Brackets for mounting to
surface / mounting brackets
for RACK 19" included *



SFP UPLINK ports, possibility
of using SFP fiber modules

Code	Number of ports: PoE	UPLINK (Combo)		Power supply	Brackets for mounting to surface /	Mounting brackets for RACK 19"	Dimensions W×H×D [+/- 2mm]
		ports RJ45	sockets SFP				
SF108-90W	8 - 100 Mb/s	2 - 1 Gb/s	2 - 1 Gb/s	52VDC / 1,75A desktop	✓ / ✓	✓	220×44×150
SF108				52VDC / 2,3A desktop	✓ / ✓		
SF116	16 - 100 Mb/s			230VAC	– / ✓	✓	442×44×224
SF124	24 - 100 Mb/s			230VAC	– / ✓		

Sample product: SF116



PoE switches for IP cameras with power supply, with SFP sockets SFG series

- supports devices compliant with IEEE 802.3af/at standard
- 1 Gb/s ports
- PoE ports – data transfer and power supply
- 30W for each PoE port – 52VDC (PoE+)
- RJ45 UPLINK ports: n/a / 1 port – for recorder / switch / computer installation *
- SFP UPLINK sockets: 1/2 ports – for switch installation *
- desktop type power supply supplied with switch
- additional mounting elements:
 - brackets for mounting to surface
- warranty: 2 years from production date

* depending on model

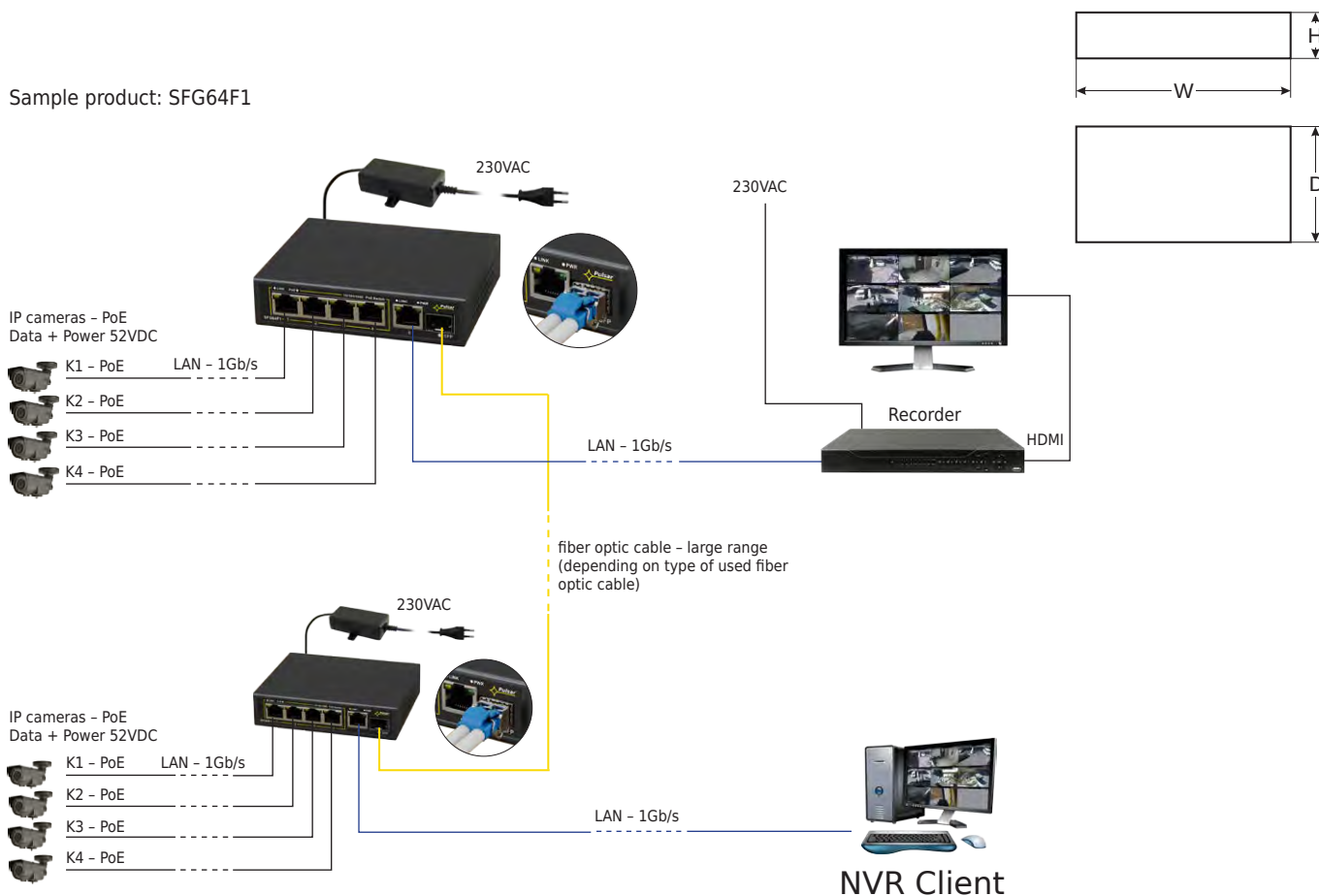


Sample product:
SFG64F1



Code	Number of ports: PoE	UPLINK		Power supply	Brackets for mounting to surface	Dimensions W×H×D [± 2mm]
		ports RJ45	sockets SFP			
SFG64	4 - 1 Gb/s	—	2 - 1 Gb/s	52VDC / 1,15A desktop	✓	118×28×95
SFG64F1		1 - 1 Gb/s	1 - 1 Gb/s			

Sample product: SFG64F1



Optical switch with power supply, with SFP sockets SFG10F8 series

- supports devices compliant with IEEE 802.3af/at standard
- 1 Gb/s ports
- RJ45 UPLINK ports: 2 ports – for recorder / switch / computer installation
- SFP UPLINK sockets: 8 ports – for switch installation
- desktop type power supply supplied with switch
- additional mounting elements:
 - brackets for mounting to surface
- warranty: 2 years from production date



SFG10F8



2 x UPLINK ports



Desktop type power supply supplied with switch



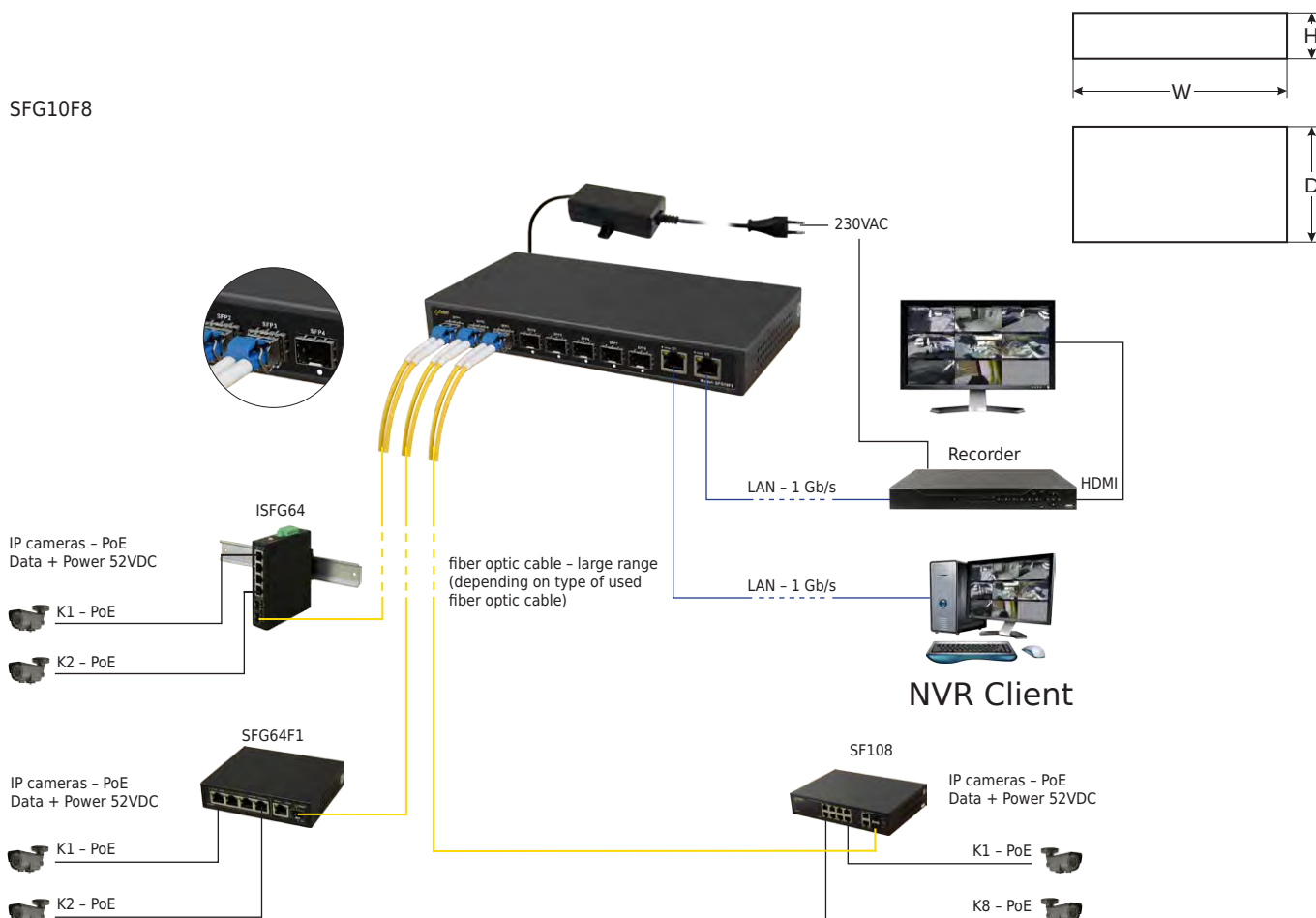
Brackets for mounting to surface



SFP UPLINK ports, possibility of using SFP fiber modules

Code	Number of ports: PoE	UPLINK		Power supply	Brackets for mounting to surface	Dimensions W×H×D [± 2mm]
		ports RJ45	sockets SFP			
SFG10F8	—	2 – 1 Gb/s	8 – 1 Gb/s	12VDC / 2A desktop	✓	221×29×115

SFG10F8



PoE switches for IP cameras, management switch with power supply, with SFP socket

SF...M series

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports – data transfer and power supply
- 30W for each PoE port – 52VDC (PoE+)
- RJ45 UPLINK ports: 2 ports – for recorder / switch / computer installation
- SFP UPLINK sockets: 2 ports – for switch installation
- UPLINK – COMBO type – operates RJ45 or SFP
- desktop type power supply supplied with switch *
- additional mounting elements:
 - brackets for mounting to surface *
 - mounting brackets for RACK 19"
- warranty: 2 years from production date



Sample product:
SF108M

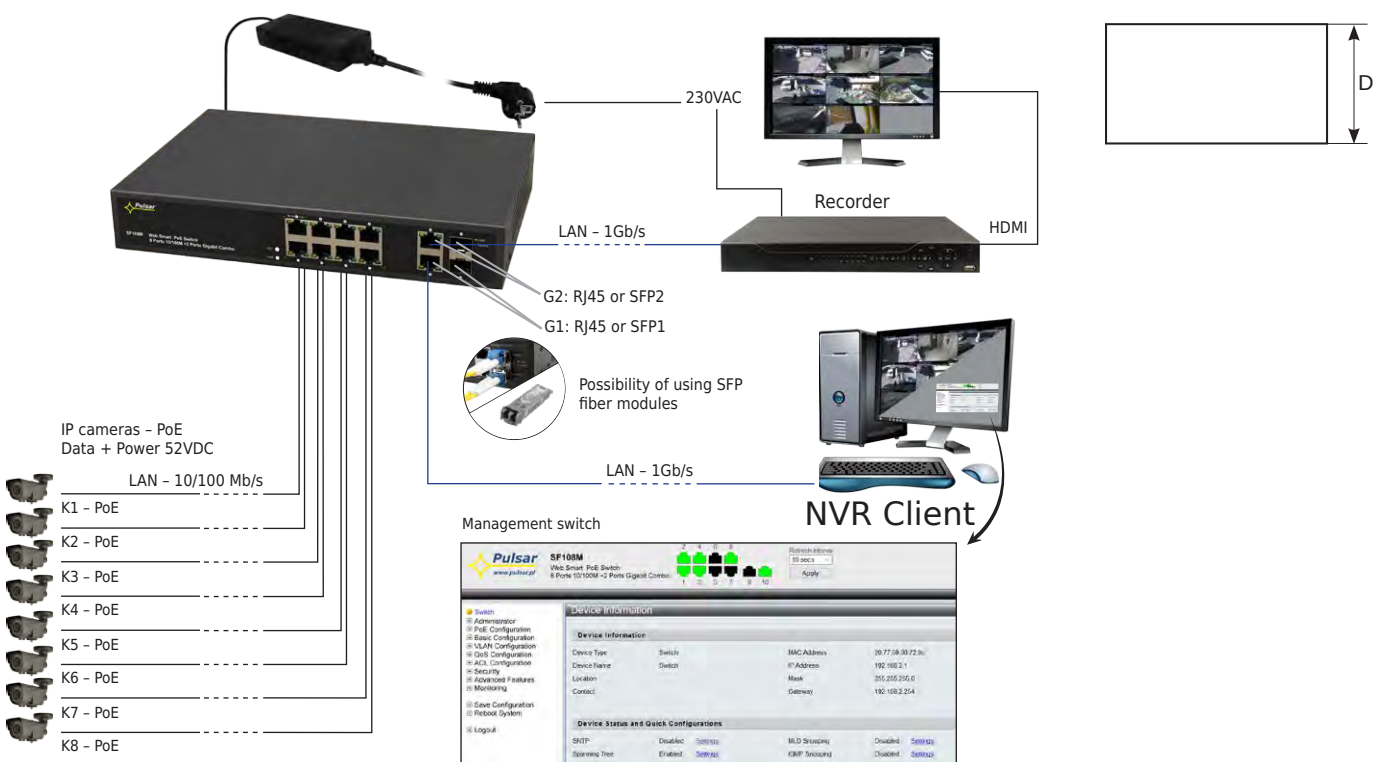
* depending on model



Code	Number of ports: PoE	UPLINK (Combo)		Power supply	Brackets for mounting to surface /	Mounting brackets for RACK 19"	Dimensions W×H×D [+/- 2mm]
		ports RJ45	sockets SFP				
SF64M **	4 – 100 Mb/s	2 – 1 Gb/s	2 – 1 Gb/s	52VDC / 1,15A desktop	✓ / ✓	✓	220×44×150
SF108M **	8 – 100 Mb/s			52VDC / 2,3A desktop	✓ / ✓	✓	270×44×187
SF116M **	16 – 100 Mb/s			230VAC	– / ✓	✓	442×44×290

** available from: 2st 2020

Sample product: SF108M



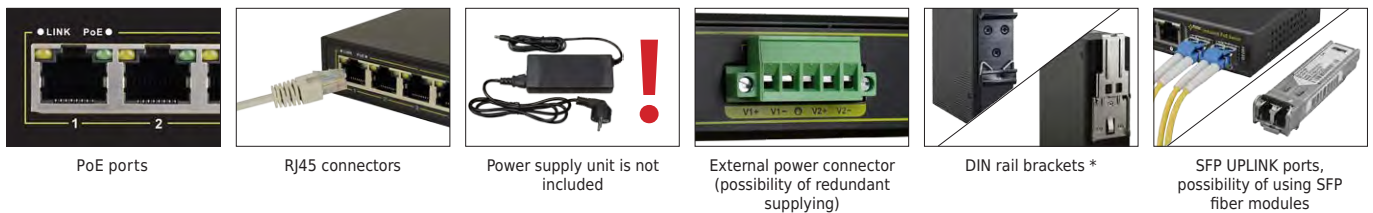
PoE switches for IP cameras, industrial without power supply unit, with SFP sockets ISFG, ISF series

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports – data transfer and power supply
- 30W for each PoE port – 52VDC (PoE+)
- RJ45 UPLINK ports: n/a / 2 ports – for recorder / switch / computer installation *
- SFP UPLINK sockets: 2 ports – for switch installation
- UPLINK – COMBO type – operates RJ45 or SFP *
- external power supply 52÷57VDC
- possibility of redundant supplying
- additional mounting elements:
 - DIN rail brackets
- warranty: 2 years from production date



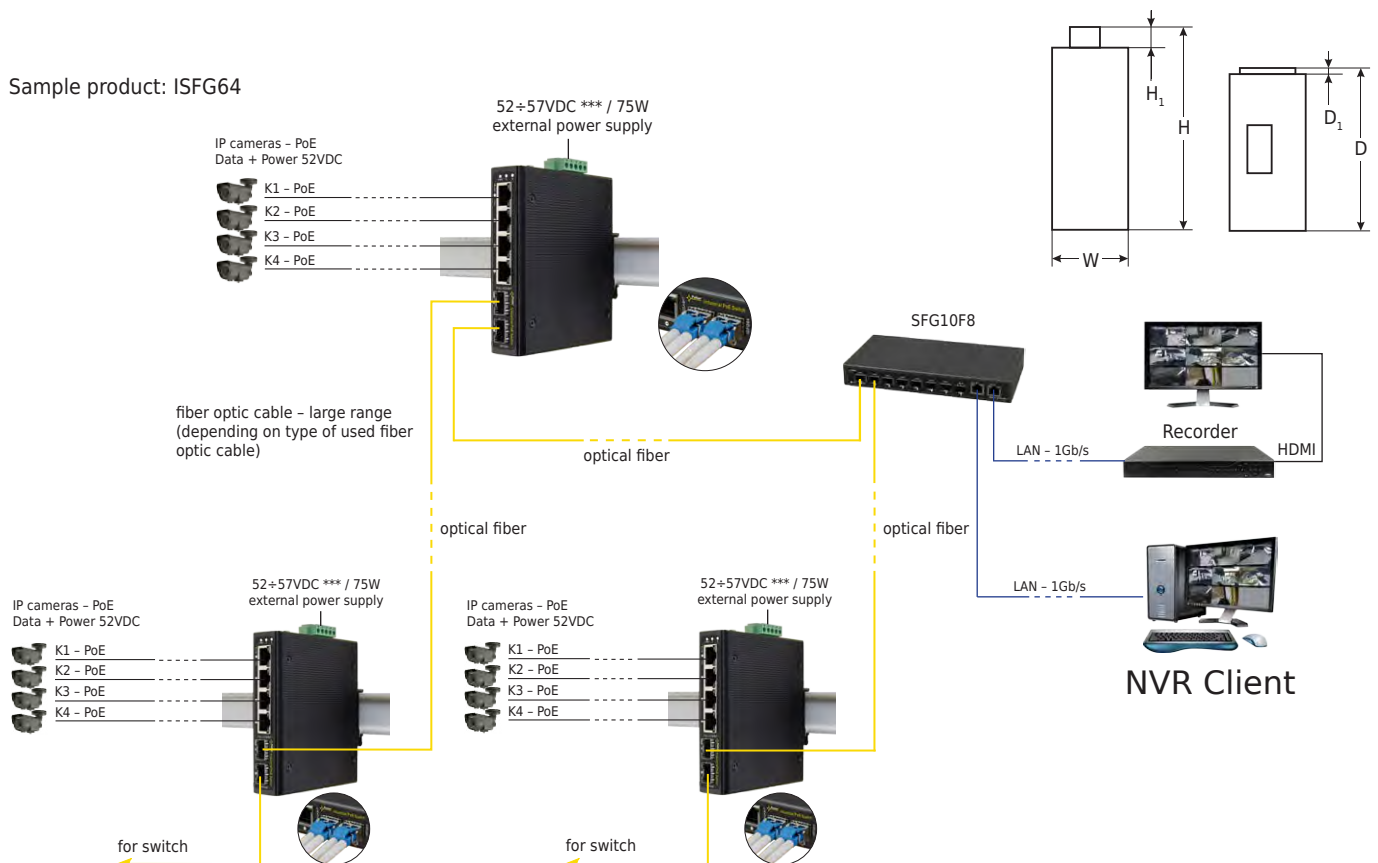
Sample product:
ISFG64

* depending on model



Code	Number of ports: PoE	UPLINK		COMBO	Power supply	DIN rail brackets	Dimensions W×H×D [± 2mm] H ₁ ×D ₁
		ports RJ45	sockets SFP				
ISFG42	2 – 1 Gb/s	—	2 – 1 Gb/s	—	48÷57VDC / 50W external power supply	✓	30×128×112 10×9
ISFG64	4 – 1 Gb/s	—		—	48÷57VDC / 75W external power supply	✓	
ISF108	8 – 100 Mb/s	2 – 1 Gb/s		✓	48÷57VDC / 120W external power supply	✓	54×176×153 10×8

Sample product: ISFG64



*** to maintain PoE+ standard

PoE switches for IP cameras with power supply unit in metal enclosure S...-C, SG...-C, SF...-C series

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports – data transfer and power supply
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s *
- 30W for each PoE port – 52VDC (PoE+)
- UPLINK ports: 2 ports – for recorder / switch / computer installation
- surface mounted enclosure, locking: bolted x1
- 14mm distance (removable) from mounting surface
- warranty: 2 years from production date

* depending on model



Sample product:
SG108-C



PoE ports



2 x UPLINK ports



Switch
(Long Range mode) *



Closing – front mounting
– 1 piece



Distance from wall (plastic)
– 14mm – removable

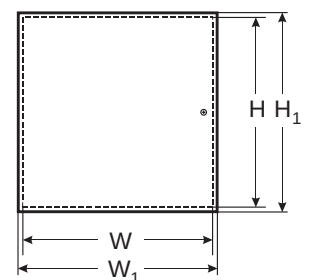
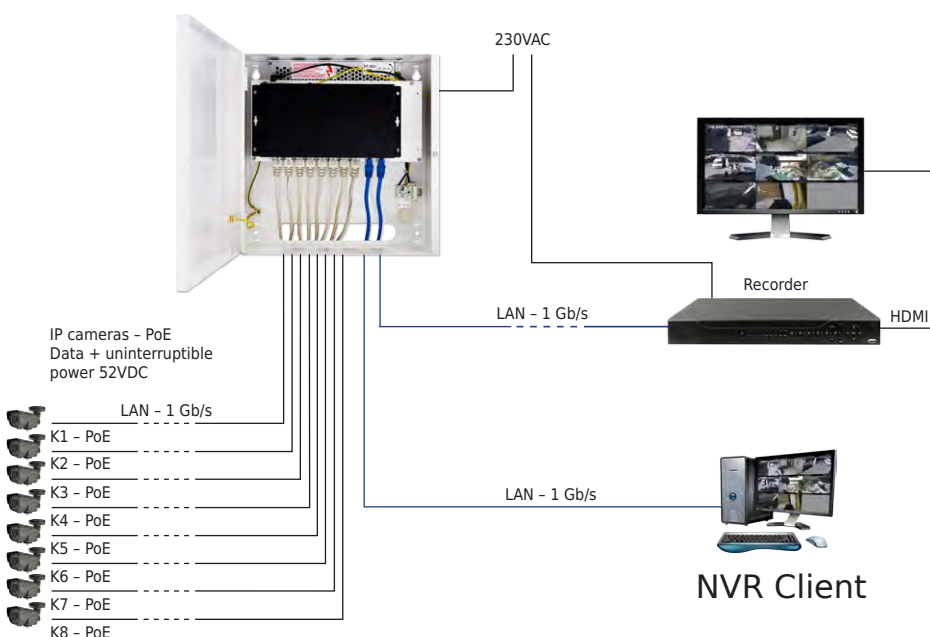


SFP UPLINK ports, possibility
of using SFP fiber modules

Applies to: SF108-C / SF116-C

Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	UPLINK (Combo)		Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
			ports RJ45	sockets SFP	
S64-C	4 – 100 Mb/s	✓	2 – 100 Mb/s	—	275×281×102+14 280×285
S108-C	8 – 100 Mb/s	✓		—	
SG64-C	4 – 1 Gb/s	—	2 – 1 Gb/s	—	
SG108-C	8 – 1 Gb/s	—		—	
SF108-C	8 – 100 Mb/s	—		2 – 1 Gb/s	525×540×72+14 530×545
SF116-C	16 – 100 Mb/s	—			

Sample product: SG108-C



PoE switches for IP cameras with power supply unit in metal enclosure and recorder space S...-CR, SG...-CR, SF...-CR series

Enclosure construction is compliant with requirements of General Data Protection Regulation GDPR (possibility of installing two locks with different codes).

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports – data transfer and power supply
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s *
- 30W for each PoE port – 52VDC (PoE+)
- UPLINK ports: 2 ports – for recorder / switch / computer installation
- surface mounted enclosure, locking: bolted x 2 (lock assembly possible)
- 14mm distance (removable) from mounting surface
- space and straps for mounting recorder
- enclosure is fitted with 230VAC socket for recorder's power supply
- provides additional space for installation of recorder's power supply
- warranty: 2 years from production date



Sample product:
SG108-CR

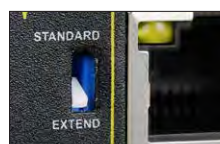
* depending on model



PoE ports



2 x UPLINK ports



Switch
(Long Range mode) *



Shelf for NVR power supply
unit, 230VAC socket



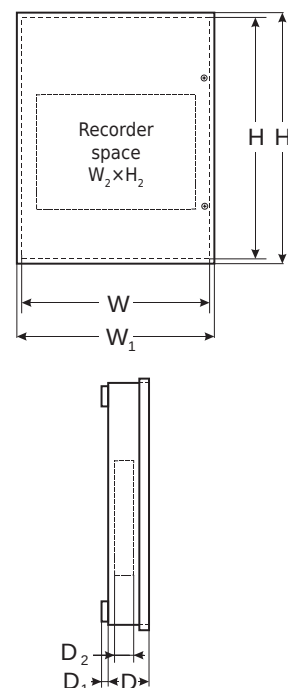
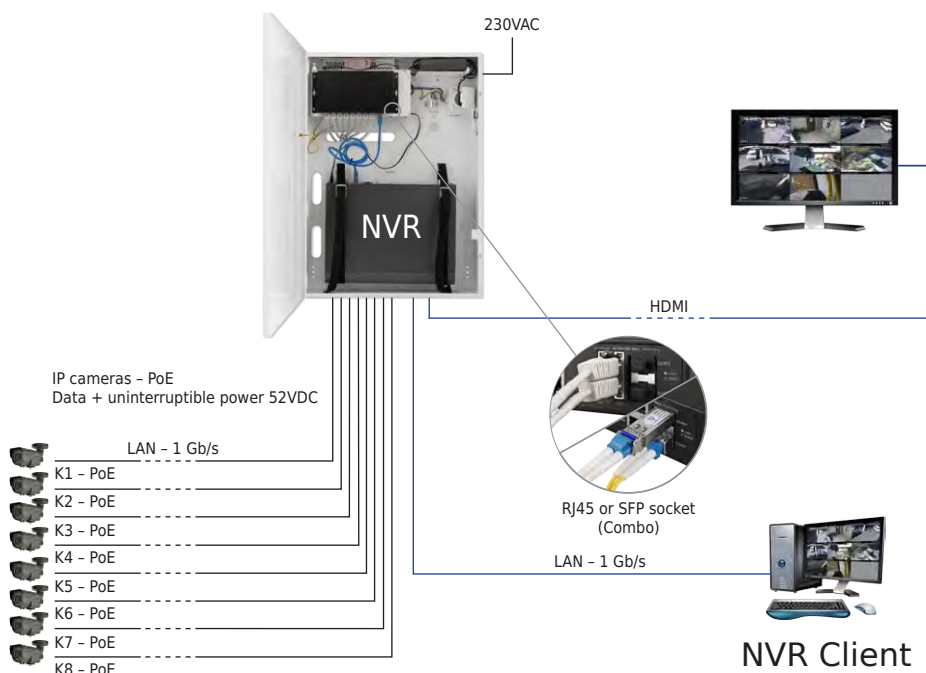
Straps for
mounting recorder



Applies to:
SF108-CR / SF116-CR
SFP UPLINK ports, possibility
of using SFP fiber modules

Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	UPLINK (Combo)		Dimensions of recorder space $W_2 \times H_2 \times D_2$ [± 2mm]	Dimensions $W \times H \times D + D_1$ [± 2mm] $W_1 \times H_1$ [± 2mm]
			ports RJ45	sockets SFP		
S64-CR	4 - 100 Mb/s	✓	2 - 100 Mb/s	—	400×345×95	432×607×102+14 437×612
S108-CR	8 - 100 Mb/s	✓		—		
SG108-CR	8 - 1 Gb/s	—		—		
SF108-CR	8 - 100 Mb/s	—	2 - 1 Gb/s	2 - 1 Gb/s	400×345×80	525×540×165+14 530×545
SF116-CR	16 - 100 Mb/s	—				

Sample product: SG108-CR



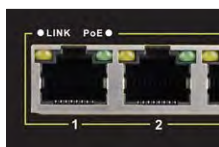
PoE switches for IP cameras with buffer power supply unit, in metal enclosure S...-B, SG...-B, SF...-B series

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports – data transfer and power supply
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s *
- 30W for each PoE port – 52VDC / 54VDC * (PoE+)
- UPLINK ports: 2 ports – for recorder / switch / computer installation
- enclosure is fitted with space for 7Ah, 17Ah, 2x17Ah, 4x7Ah battery *
- surface mounted enclosure, locking: bolted x 2 (lock assembly possible)
- 8mm / 14mm distance (removable) from mounting surface *
- warranty: 2 years from production date

* depending on model



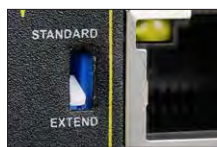
Sample product:
SF108-B



PoE ports



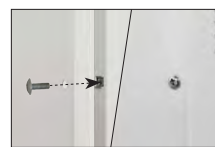
2 x UPLINK ports



Switch
(Long Range mode) *



Tamper indicating enclosure
opening – 1 piece



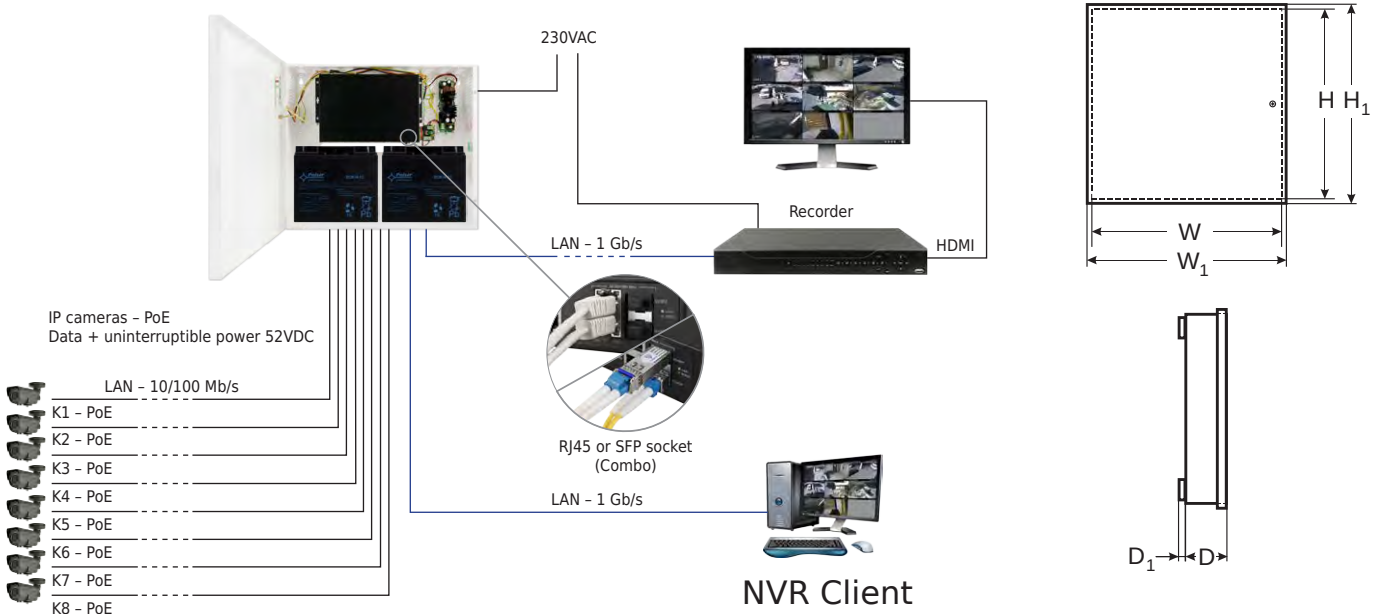
Closing – front mounting
– 2 pieces



Applies to:
SF108-B / SF116-B
SFP UPLINK ports, possibility
of using SFP fiber modules

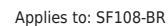
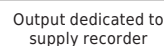
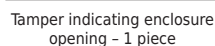
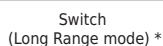
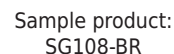
Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	UPLINK (Combo)		Fitting battery	Battery charging current	Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
			ports RJ45	sockets SFP			
S64-B	4 - 100 Mb/s	✓	2 - 100 Mb/s	—	7Ah	0,5A	280×291×82+8 285×295
S64-B17		✓		—	17Ah		397×350×92+8 402×355
S108-B	8 - 100 Mb/s	✓	2 - 1 Gb/s	—	2×17Ah		280×291×82+8 285×295
SG64-B	4 - 1 Gb/s	—		—	7Ah		397×350×92+8 402×355
SG108-B	8 - 1 Gb/s	—		2 - 1 Gb/s	2×17Ah		420×364×117+14 425×369
SF108-B	8 - 100 Mb/s	—					525×540×72+14 530×545
SF116-B	16 - 100 Mb/s	—					

Sample product: SF108-B



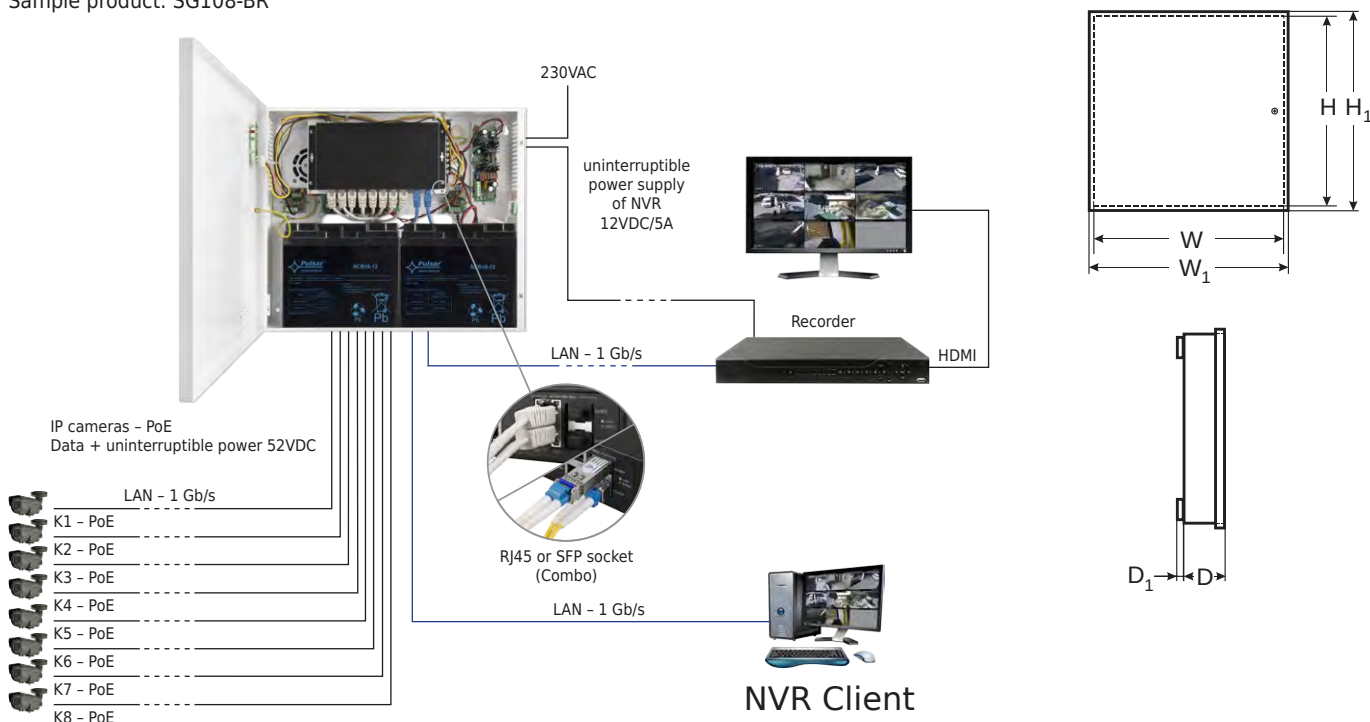
**PoE switches for IP cameras and NVR
with buffer power supply unit, in metal enclosure
S...-BR, SG...-BR, SF...-BR series**

- * depending on model



Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	UPLINK (Combo)		Fitting battery	Battery charging current	Recorder power supply	Dimensions W×H×D×D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
			ports RJ45	sockets SFP				
S64-BR	4 - 100 Mb/s	✓	2 - 100 Mb/s	—	2×17Ah	0,5A	12VDC/5A	397×350×92+8 402×355
S108-BR	8 - 100 Mb/s	✓		—	2×17Ah	1,0A	12VDC/5A	
SG108-BR	8 - 1 Gb/s	—	2 - 1 Gb/s	—	2×17Ah	1,0A	12VDC/5A	
SF108-BR	8 - 100 Mb/s	—		2 - 1 Gb/s	2×17Ah	1,0A	12VDC/5A	420×364×117+14 425×369

Sample product: SG108-BR



PoE switches for IP cameras and NVR with buffer power supply unit with recorder space S...-CRB, SG...-CRB, SF...-CRB series

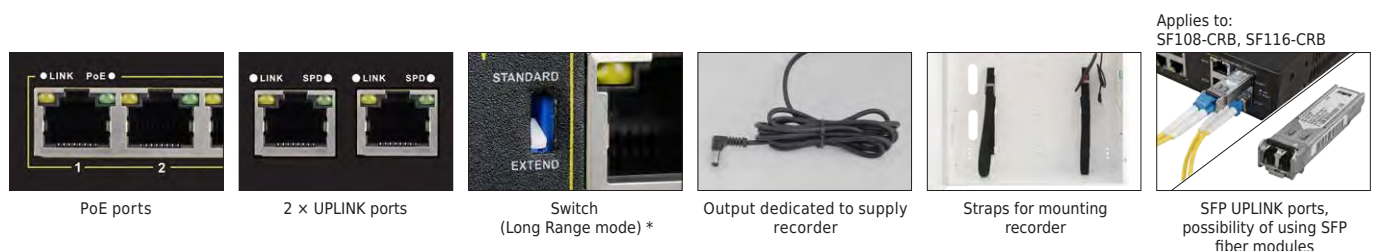
Enclosure construction is compliant with requirements of General Data Protection Regulation GDPR (possibility of installing two locks with different codes).

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports – data transfer and power supply
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s *
- 30W for each PoE port – 52VDC / 54VDC * (PoE+)
- UPLINK ports: 2 ports – for recorder / switch / computer installation
- enclosure is fitted with space for 2×17Ah, 4×17Ah battery
- surface mounted enclosure, locking: bolted × 2 (lock assembly possible)
- 14mm distance (removable) from mounting surface
- output dedicated to supply recorder – 12VDC / 5A, 12VDC / 4A *
- space and straps for mounting recorder
- warranty: 2 years from production date

* depending on model



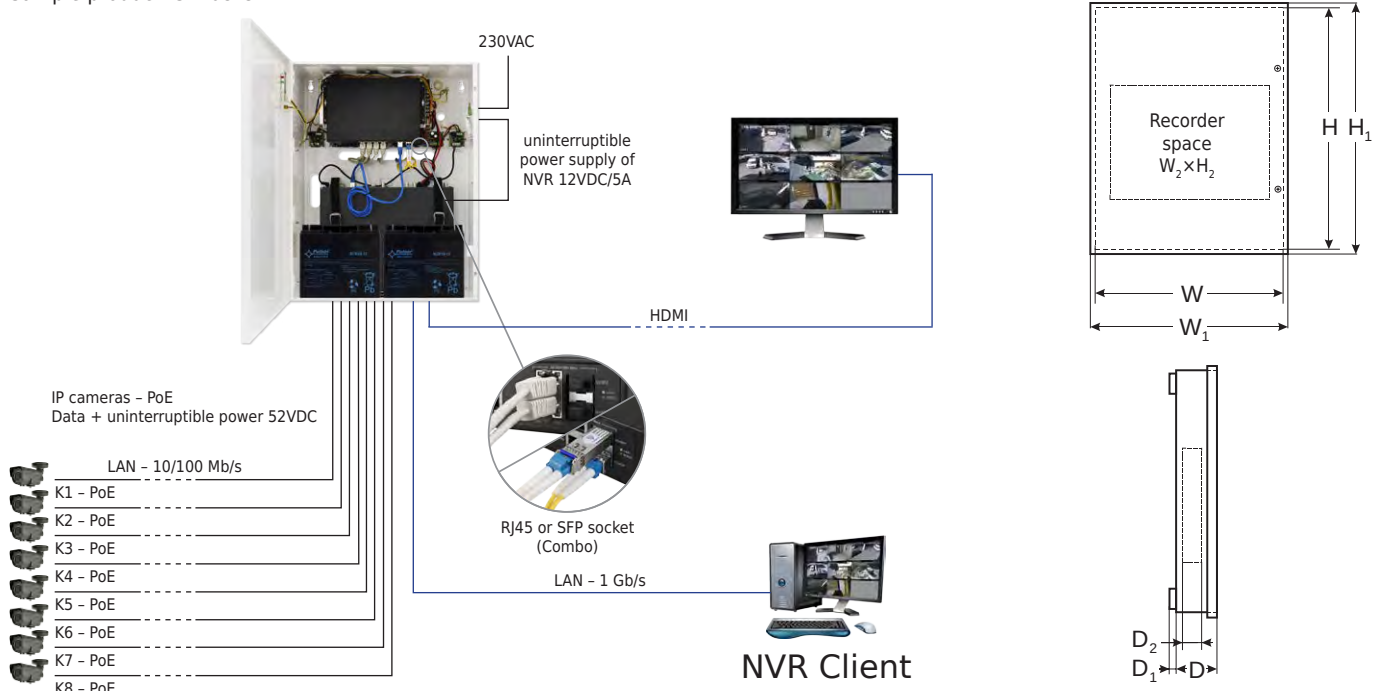
Sample product:
SF108-CRB



Applies to:
SF108-CRB, SF116-CRB

Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	UPLINK (Combo)		Fitting battery	Battery charging current	Recorder power supply	Dimensions of recorder space $W_2 \times H_2 \times D_2$ [+/- 2mm]	Dimensions $W \times H \times D, D_1$ [+/- 2mm]
			ports RJ45	sockets SFP					
S64-CRB	4 - 100 Mb/s	✓	2 - 100 Mb/s	—	2×17Ah	0,5A	12VDC/5A	380×320×65	421×535×193+14
S108-CRB	8 - 100 Mb/s	✓		—	2×17Ah	1,0A	12VDC/5A		
SG108-CRB	8 - 1 Gb/s	—		—	2×17Ah	1,0A	12VDC/5A		
SF108-CRB	8 - 100 Mb/s	—	2 - 1 Gb/s	2 - 1 Gb/s	2×17Ah	1,0A	12VDC/5A	400×345×80	525×680×165+14
SF116-CRB	16 - 100 Mb/s	—			4×17Ah	0,5A	12VDC/4A		

Sample product: SF108-CRB



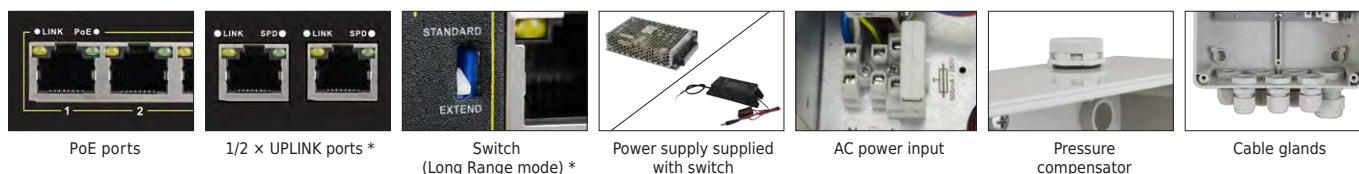
PoE switches for IP cameras with power supply, in hermetic enclosure - IP56 S...H, SG...H, SFG...H, ISF...H series

- supports devices compliant with IEEE 802.3af / at standard
- 10/100 Mb/s and 1 Gb/s *
- PoE ports – data transfer and power supply
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s *
- 30W for each PoE port – 52VDC (PoE+)
- RJ45 UPLINK ports: 1/2 ports – for recorder / switch / computer installation *
- SFP UPLINK sockets: 1/2 ports – for recorder / switch / computer installation *
- UPLINK – COMBO type – operates RJ45 or SFP *
- hermetic enclosure – IP56
- warranty: 1 year from production date

* depending on model



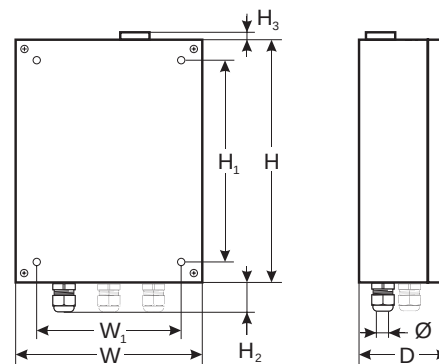
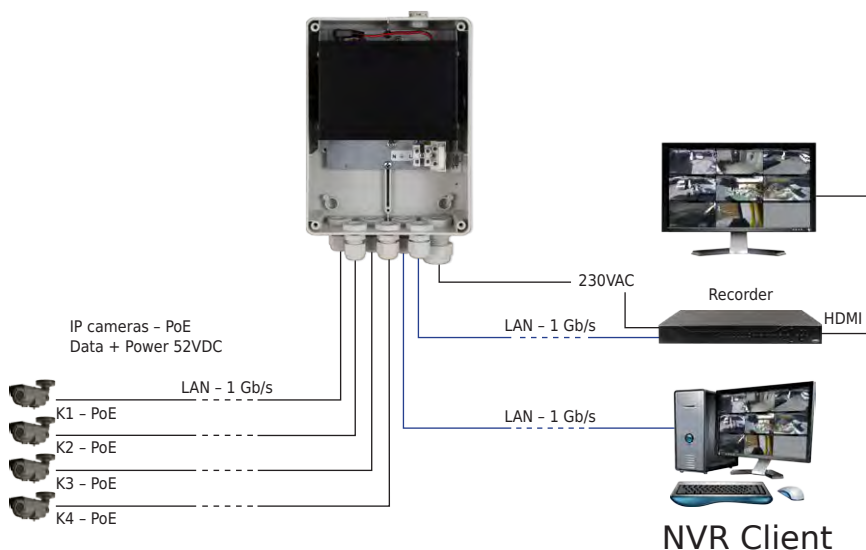
Sample product:
SG64H



Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	UPLINK		COMBO	Power supply	Number of cable glands / Ø cables	Dimensions W×H×D [+/- 2mm]
			ports RJ45	sockets SFP				
S64H	4 - 100 Mb/s	✓ (ports 1+4)	2 - 100 Mb/s	—	—	230VAC	6 pieces / 4+8mm 1 pieces / 10+14mm	146×196×78
S108H	8 - 100 Mb/s	✓ (ports 1+8)	2 - 100 Mb/s	—	—		10 pieces / 4+8mm 1 pieces / 10+14mm	249×198×96
SG64H	4 - 1 Gb/s	—	2 - 1 Gb/s	—	—		6 pieces / 4+8mm 1 pieces / 10+14mm	146×196×78
SFG64H **	4 - 1 Gb/s	—	—	2 - 1 Gb/s	—		6 pieces / 4+8mm 1 pieces / 10+14mm	146×196×78
SFG64F1H **	4 - 1 Gb/s	—	1 - 1 Gb/s	1 - 1 Gb/s	—		10 pieces / 4+8mm 1 pieces / 10+14mm	229×308×129
ISF108H **	8 - 100 Mb/s	—	2 - 1 Gb/s	2 - 1 Gb/s	✓		10 pieces / 4+8mm 1 pieces / 10+14mm	229×308×129

** available from: 2st 2020

Sample product: SG64H



Accessories:



OZB2 / OZB3 / OZB4



Vertical pole mounting



Horizontal pole mounting

PoE switches for IP cameras with power supply desktop, with SFP sockets * S, SF, SF...M series

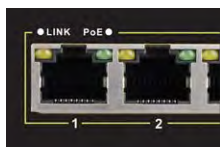
RACK 19"

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports – data transfer and power supply *
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s *
- 30W for each PoE port – 52VDC (PoE+)
- UPLINK ports: 2 ports – for recorder / switch / computer installation
- SFP UPLINK sockets: 2/8 ports – for recorder / switch / computer installation *
- UPLINK – COMBO type – operates RJ45 or SFP *
- desktop type power supply supplied with switch *
- standard RACK 19" / 1U
- additional mounting elements: mounting brackets for RACK 19"
- warranty: 2 years from production date



Sample product:
SF116

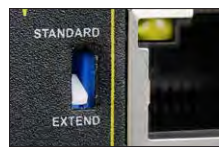
* depending on model



PoE ports



2 x UPLINK ports



Switch
(Long Range mode) *



Power supply included *



Mounting brackets for
RACK 19"

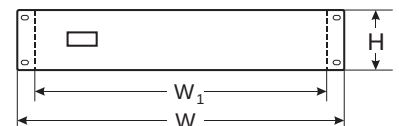
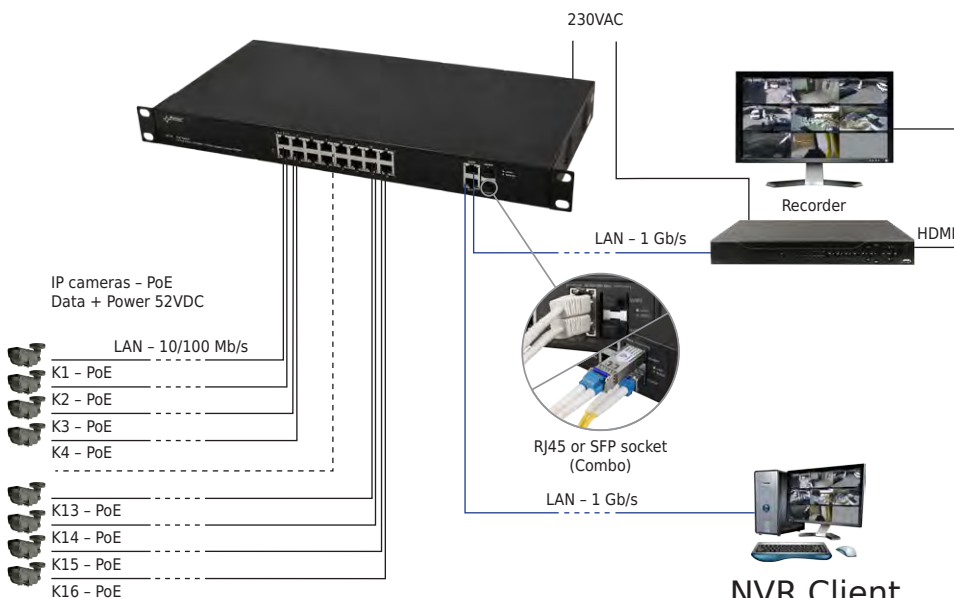


SFP UPLINK ports,
possibility of using SFP fiber
modules *

Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	UPLINK (Combo)		Power supply	Mounting dimensions W×H×D (mounting brackets for RACK 19")	Dimensions W / W ₁ / H / D [+/- 2mm]
			ports RJ45	sockets SFP			
S124	24 - 100 Mb/s	✓ (ports: 17÷24)	2 - 1 Gb/s	—	230VAC	19"×1U×204	486 / 330 / 44 / 204
SF108-90W	8 - 100 Mb/s	—		2 - 1 Gb/s	52VDC / 1,75A desktop	19"×1U×150	482 / 220 / 44 / 150
SF108		—			52VDC / 2,3A desktop		
SF116	16 - 100 Mb/s	—			230VAC	19"×1U×224	482 / 442 / 44 / 224
SF124	24 - 100 Mb/s	—			230VAC		486 / 442 / 44 / 224
SF64M **	4 - 100 Mb/s	—		2 - 1 Gb/s	52VDC / 1,15A desktop	19"×1U×150	483 / 220 / 40 / 150
SF108M **	8 - 100 Mb/s	—			52VDC / 2,3A desktop	19"×1U×187	483 / 270 / 44 / 187
SF116M **	16 - 100 Mb/s	—			230VAC	19"×1U×290	483 / 442 / 44 / 290

** available from: 2st 2020

Sample product: SF116



PoE switches for IP cameras with power supply RS, RSG, RSF series

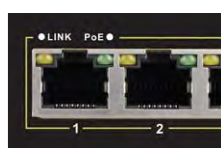
RACK 19"

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports – data transfer and power supply
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s *
- 30W for each PoE port – 52VDC / 44÷57VDC * (PoE+)
- UPLINK ports: 2 ports – for recorder / switch / computer installation
- desktop type power supply supplied with switch *
- standard RACK 19" – 1U / 2U *
- warranty: 2 years from production date

* depending on model



Sample product:
RSF108



PoE ports



2 x UPLINK ports



Switch
(Long Range mode) *



Desktop type power supply
supplied with switch *

Applies to: RSF116



External power connector

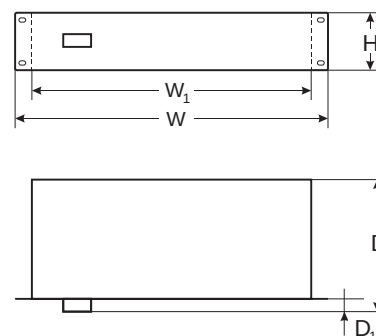
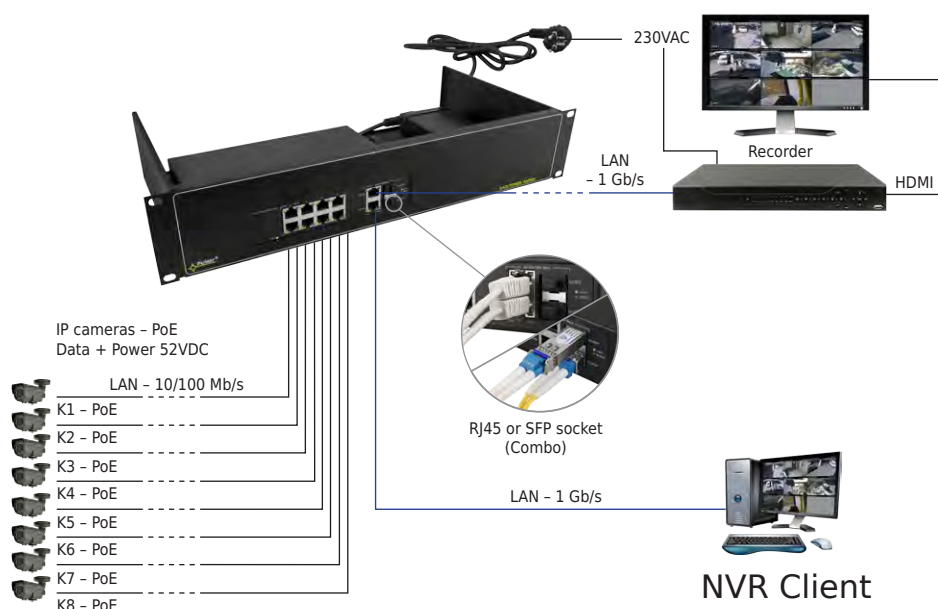
Applies to: RSF108, RSF116



SFP UPLINK ports, possibility
of using SFP fiber modules

Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	UPLINK (Combo)		Power supply	Mounting dimensions W×H×D	Dimensions W / W ₁ / H / D / D ₁ [+/- 2mm]
			ports RJ45	sockets SFP			
RS64	4 - 100 Mb/s	✓	2 - 100 Mb/s	—	230VAC	19"×1U×227	482 / 440 / 44 / 227 / —
RS108	8 - 100 Mb/s	✓		—	230VAC		
RSG64	4 - 1 Gb/s	—	2 - 1 Gb/s	—	230VAC	19"×2U×227	482 / 444 / 88 / 227 / —
RSG108	8 - 1 Gb/s	—		—	230VAC		
RSF108	8 - 100 Mb/s	—		2 - 1 Gb/s	230VAC	19"×1U×200	483 / 446 / 44 / 200 / 15
RSF116	16 - 100 Mb/s	—			44÷57VDC	19"×1U×200	

Sample product: RSF108



PoE switches with buffer power supply for IP cameras

RSUPS, RSGUPS, RSFUPS series

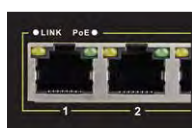
RACK 19"

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports – data transfer and power supply
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s *
- 30W for each PoE port – 52VDC / 54VDC * (PoE+)
- UPLINK ports: 2 ports – for recorder / switch / computer installation
- technical output ALARM relay C/NO/NC
- acoustic indication of failure – BUZZER
- buffer power supply included
- connectors for external battery connection
- standard RACK 19" / 2U
- warranty: 2 years from production date



Sample product:
RSFUPS108

* depending on model



PoE ports



2 x UPLINK ports



Switch
(Long Range mode) *



Connectors for
external battery
connection

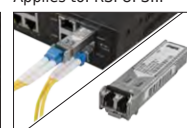


Technical output
ALARM



Failure indication
- BUZZER

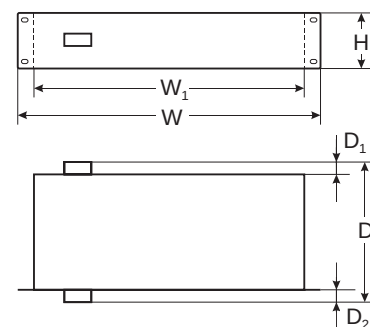
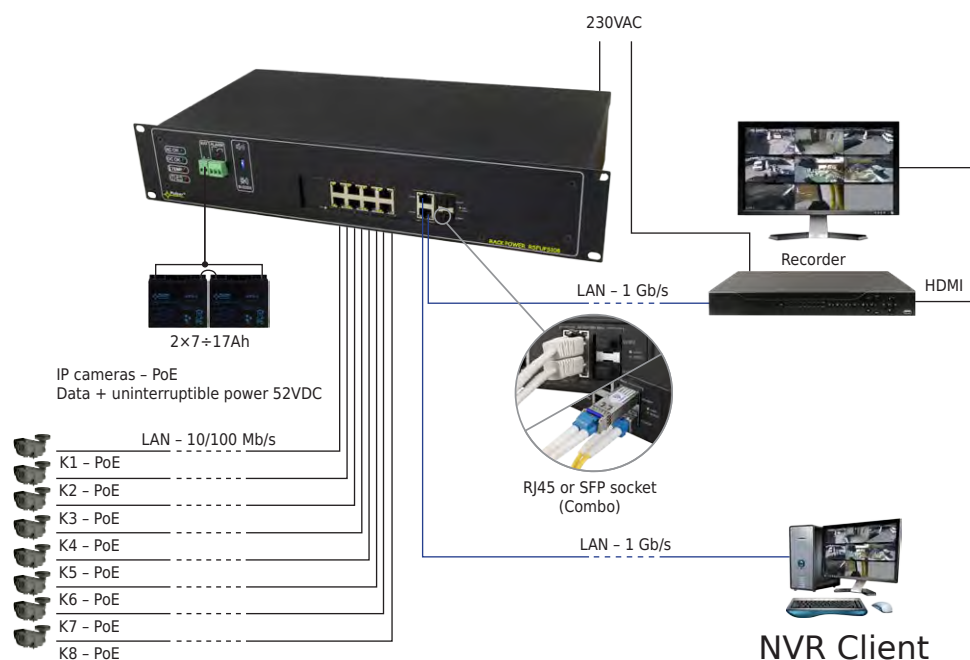
Applies to: RSFUPS...



SFP UPLINK ports,
possibility of using SFP
fiber modules

Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	UPLINK (Combo)		Battery charging current	Technical output of alarm	Mounting dimensions W×H×D	Dimensions W / W ₁ / H / D / D ₁ / D ₂ [+/- 2mm]
			ports RJ45	sockets SFP				
RSUPS108	8 - 100 Mb/s	✓	2 - 100 Mb/s	—	0,5A (2×7+17Ah)	✓	19"×2U×307	482 / 442 / 88 / 307 / 32 / 10
RSGUPS108	8 - 1 Gb/s	—	2 - 1 Gb/s	—	0,5A (2×7+17Ah)	✓	19"×2U×368	482 / 442 / 88 / 368 / 32 / 10
RSFUPS108	8 - 100 Mb/s	—		2 - 1 Gb/s	0,5A (2×7+17Ah)	✓		
RSFUPS116	16 - 100 Mb/s	—			0,5A (4×7+17Ah)	✓	19"×2U×348	482 / 446 / 88 / 348 / 32 / 15

Sample product: RSFUPS108



PoE switches with buffer power supply for IP cameras and NVR 12VDC

RSUPS...R, RSGUPS...R, RSFUPS...R series

RACK 19"

- supports devices compliant with IEEE 802.3af/at standard
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports – data transfer and power supply
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s *
- 30W for each PoE port – 52VDC / 54VDC * (PoE+)
- UPLINK ports: 2 ports – for recorder / switch / computer installation
- technical output ALARM relay C/NO/NC
- acoustic indication of failure – BUZZER
- buffer power supply included
- connectors for external battery connection
- standard RACK 19" / 2U
- output dedicated to supply recorder – 12VDC / 4A
- warranty: 2 years from production date



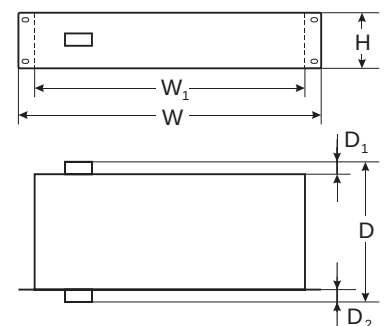
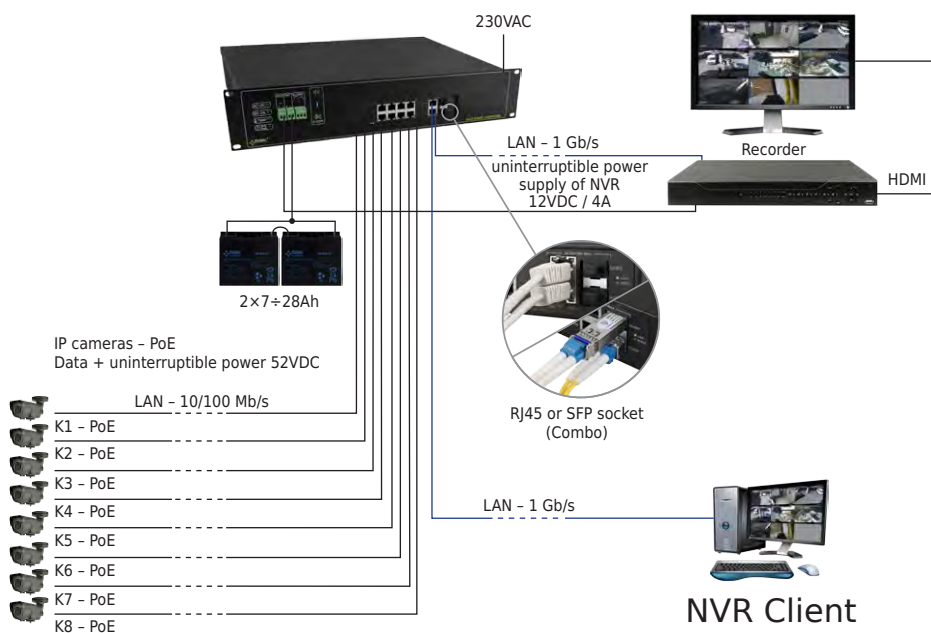
Sample product:
RSFUPS108R

* depending on model



Code	Number of ports: PoE	Long Range mode 100 Mb/s - up to 100m 10 Mb/s - up to 250m	UPLINK (Combo)		Battery charging current	Technical outputs of alarm	Recorder power supply	Mounting dimensions W×H×D	Dimensions W / W ₁ / H / D / D ₁ / D ₂ [± 2mm]
			ports RJ45	sockets SFP					
RSUPS108R	8 - 100 Mb/s	✓	2 - 100 Mb/s	—	1,0A (2×7÷28Ah)	✓	12VDC / 4A	19"×2U×307	482 / 442 / 88 / 307 / 32 / 10
RSGUPS108R	8 - 1 Gb/s	—	2 - 1 Gb/s	—	1,0A (2×7÷28Ah)	✓	12VDC / 4A	19"×2U×368	482 / 442 / 88 / 368 / 32 / 10
RSFUPS108R	8 - 100 Mb/s	—		2 - 1 Gb/s	1,0A (2×7÷28Ah)	✓	12VDC / 4A		
RSFUPS116R	16 - 100 Mb/s	—			0,5A (4×7÷17Ah)	✓	12VDC / 4A	19"×2U×348	482 / 446 / 88 / 348 / 32 / 15

Sample product: RSFUPS108R



SFP fiber optic modules for switches of SF..., SFG..., SF...M, ISFG..., ISF... series GBIC series

- fiber type: single mode (SM) / multimode (MM) *
- optical connector Type: LC / SC *
- wavelength: 1310nm / 1310nm *
1310nm / 1550nm *
1550nm / 1310nm *
- transmission range: up to 2km / up to 20km *
- transmission speed: 1,25 Gb/s
- standards and protocols: IEEE 802.3z 1000Base-FX
- power supply: 3,3VDC (power from SFP port)
- notes:
 - built-in DDM (Digital Diagnostics Monitoring)
 - module has snap-lock system for optical connectors
- warranty: 2 years from production date



Sample product:
GBIC-101

* depending on model

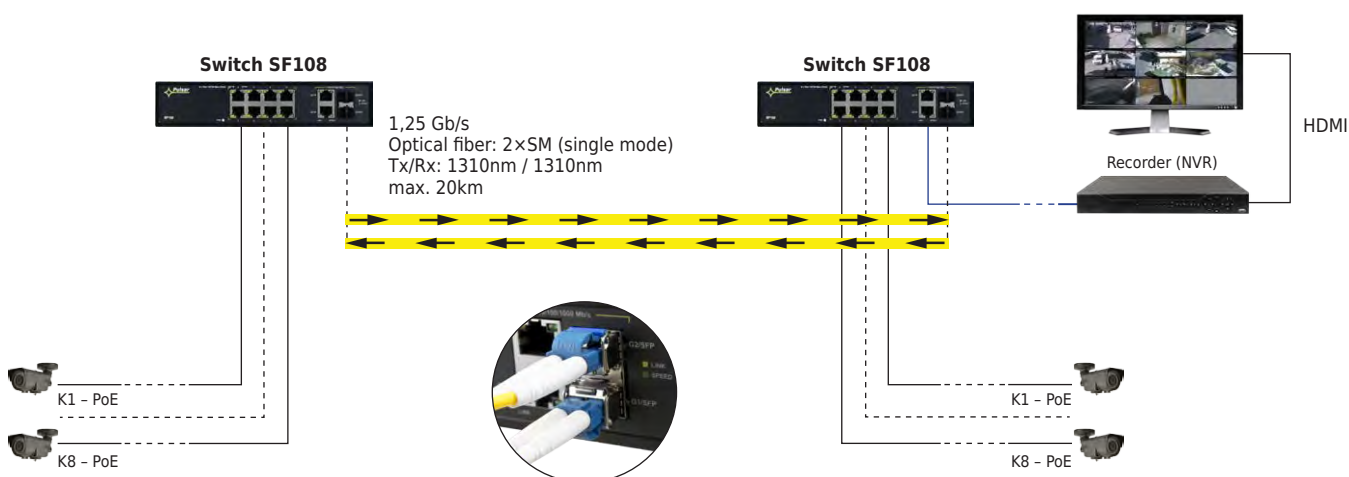


Code	Fiber type	Optical Connector Type	Wavelength Tx / Rx	Transmission range	Transmission speed
GBIC-101	SM	2×LC	1310nm / 1310nm	20km	1,25 Gb/s
GBIC-102	MM		1310nm / 1310nm	2km	
GBIC-103	SM	1×SC	1310nm / 1550nm	20km	
GBIC-104			1550nm / 1310nm		
GBIC-105		1×LC	1310nm / 1550nm		
GBIC-106			1550nm / 1310nm		

Sample product: GBIC-101



Optical Connector Type
2×LC



Multi-output power supply units 12VDC PSDC...T series

- power supply: 85÷264VAC / 88÷264VAC / 176÷264VAC *
- available models: 12VDC / 4×0,5A
12VDC / 5×1,0A
12VDC / 8×1,0A
12VDC / 9×0,5A
12VDC / 16×0,8A / 16×1,0A
- voltage adjustment range: 12÷15VDC
- number of outputs × fuse: 4×0,5A / 5×1,0A / 9×0,5A / 8×1,0A / 16×0,8A / 16×1,0A *
- fuse type: glass fuse
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- notes:
 - surface mounted enclosure, locking – bolted
- warranty: 2 years from production date



Sample product:
PSDC08128T

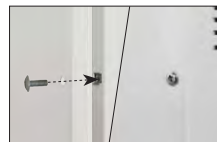
* depending on model



LED optical indication



Space for tamper
(PKAZ005)



Closing
- front mounting - 1 piece



Fuse-protected output:
glass fuse



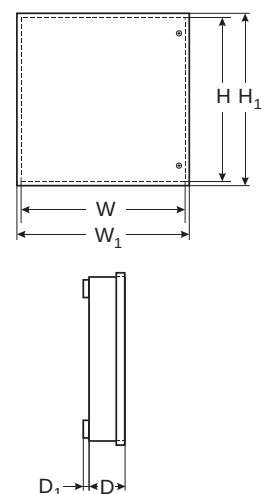
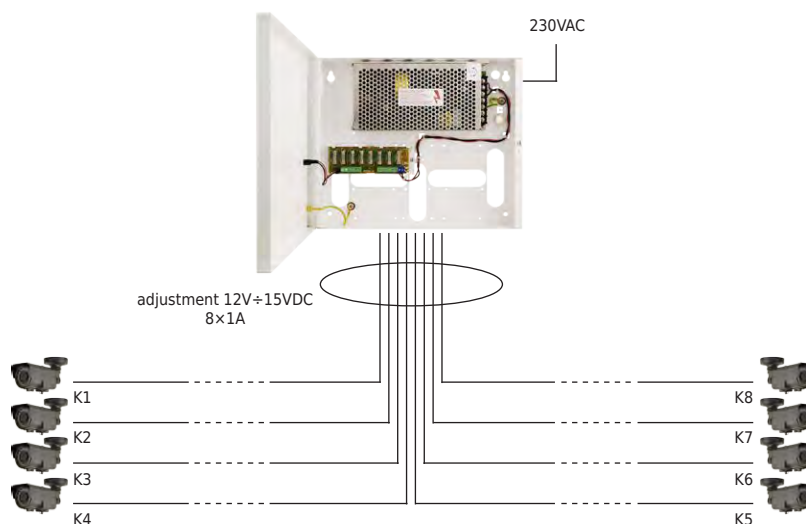
Removable hinges



Distance from
wall (plastic) - 8mm

Code	Output voltage	Output current	Number of outputs	Fuse type	Dimensions W×H×D+D ₁ [÷/- 2mm]
PSDC04122T	12VDC (12÷15VDC)	2,0A	4×0,5A	0,5A - glass fuse	230×177×52+8
PSDC05125T		5,0A	5×1,0A	1,0A - glass fuse	
PSDC09125T		5,0A	9×0,5A	0,5A - glass fuse	
PSDC08128T		8,0A	8×1,0A	1,0A - glass fuse	
PSDC161212T		12,0A	16×0,8A	0,8A - glass fuse	290×256×52+8
PSDC161216T		16,0A	16×1,0A	1,0A - glass fuse	

Sample product: PSDC08128T



Multi-output power supply units 12VDC, with independently adjustable voltage and with galvanic isolation of each section PSDCS series

- power supply: 176÷264VAC
- available models: 12VDC / 8×1,0A
12VDC / 16×0,87A
- voltage adjustment range: 12÷15VDC – with independently adjustable voltage and with galvanic isolation of each section
- number of outputs × fuse: 8×1,0A / 16×1,0A
- fuse type: glass fuse
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- notes:
 - surface mounted enclosure, locking – bolted
 - PSU is fitted with two independent, galvanically isolated power sections
- warranty: 2 years from production date



Sample product:
PSDCS161214



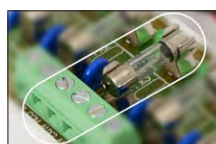
LED optical indication



Space for tamper
(PKAZ005)



Closing
– front mounting – 1 piece



Fuse-protected output:
glass fuse



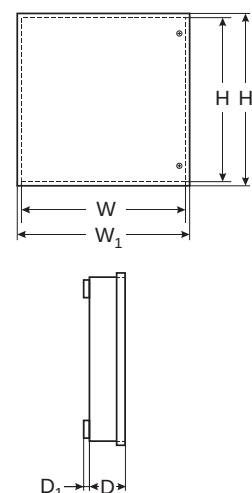
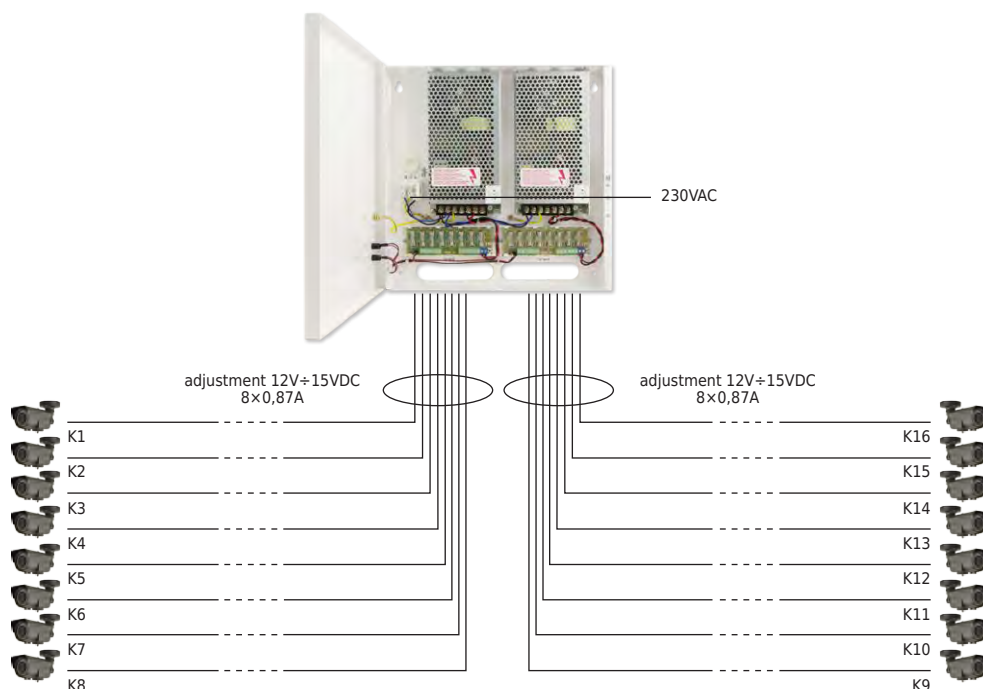
Removable hinges



Distance from
wall (plastic) – 8mm

Code	Output voltage	Adjustable output voltage	Output current	Number of outputs	Fuse type	Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
PSDCS08128	12VDC	2×12÷15VDC	8,0A	8×1,0A	1,0A – glass fuse	300×301×52+8 305×306
PSDCS161214			14,0A	16×0,87A		

Sample product: PSDCS161214



Multi-output power supply units 12VDC with recorder space PSDCR series

Enclosure construction is compliant with requirements of General Data Protection Regulation GDPR (possibility of installing two locks with different codes).

- power supply: 176÷264VAC
- available models: 12VDC / 8×1,0A
12VDC / 16×0,87A
- voltage adjustment range: 12÷15VDC
- number of outputs × fuse: 8×1,0A / 16×1,0A
- fuse type: glass fuse
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP overvoltage protection, surge protection
- notes:
 - enclosure is fitted with recorder space
 - surface mounted enclosure, locking – bolted
 - enclosure is fitted with 230VAC socket for recorder's power supply
 - provides additional space for installation of recorder's power supply
 - enclosure is fitted with straps for mounting DVR
- warranty: 2 years from production date



Sample product:
PSDCR161214



Closing – front mounting
– 2 pieces



Fuse-protected output:
glass fuse



Shelf for DVR power supply
unit, 230VAC socket



Straps for
mounting DVR



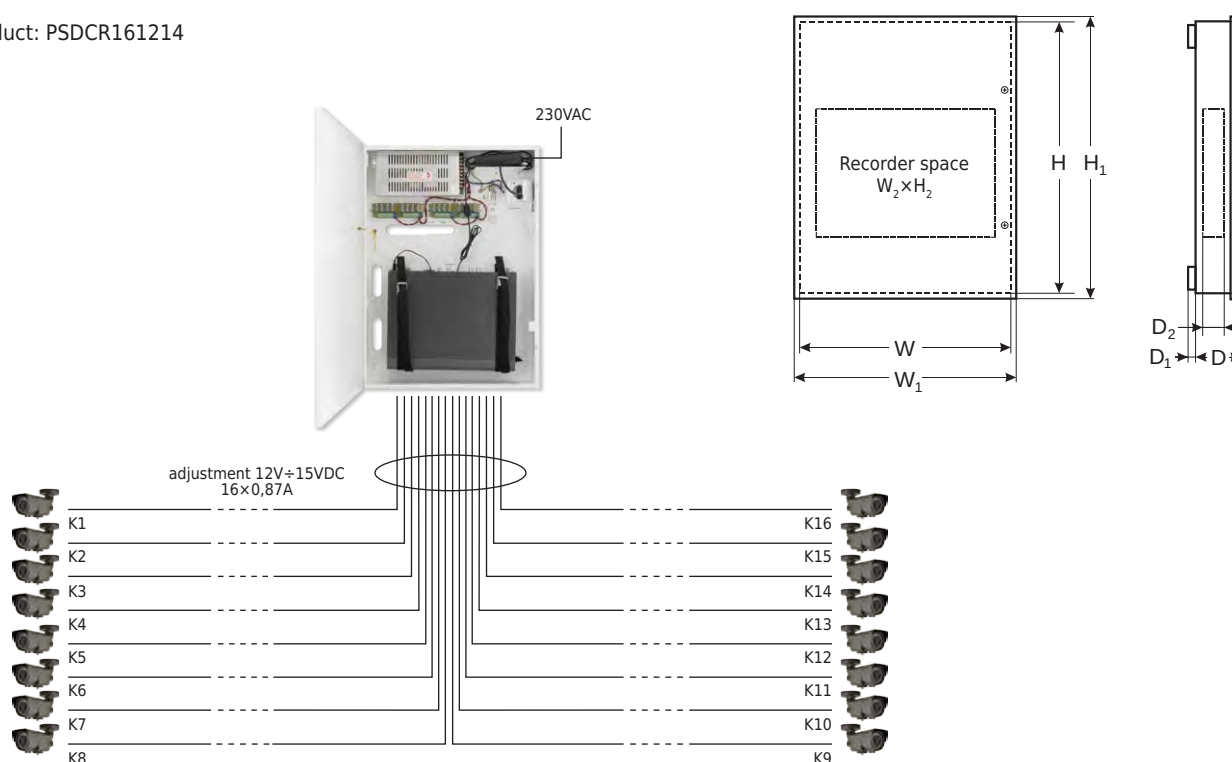
Removable hinges



Distance from
wall (plastic) – 8mm

Code	Output voltage	Output current	Number of outputs	Fuse type	Dimensions of recorder space $W_2 \times H_2 \times D_2$ [± 2mm]	Dimensions $W \times H \times D + D_1$ [± 2mm] $W_1 \times H_1$ [± 2mm]
PSDCR08128	12VDC (12÷15VDC)	8,0A	8×1,0A	1,0A – glass fuse	400×345×95	435×607×102+14 437×612
PSDCR161214		14,0A	16×0,87A			

Sample product: PSDCR161214



Multi-output power supply units 12VDC with fault outputs PSDC series

-

* depending on model

Distance from
wall (plastic) - 8mm

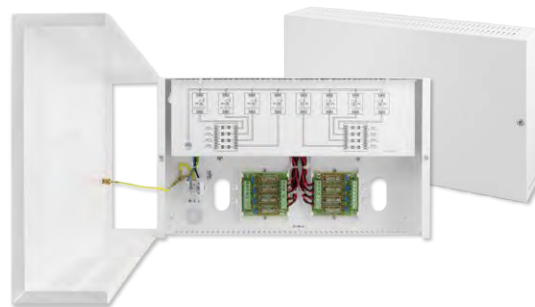
Sample product: PSDC08128



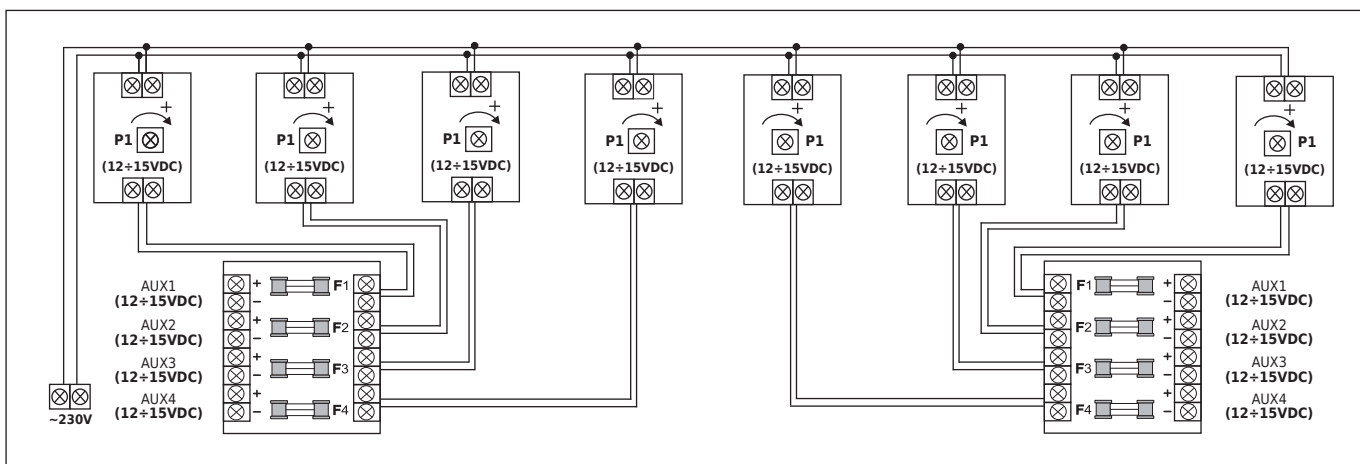
Multi-output power supply units 12÷15VDC with each output channel independently adjustable and with galvanic separation of each channel PSDCSEP series

- power supply: 85÷264VAC
- power supply outputs: 4×12VDC - 1A
8×12VDC - 1A
- voltage adjustment range: 12÷15VDC - with independent regulation and galvanic separation of each channel
- number of outputs × fuse: 4×1A / 8×1A *
- fuse type: glass fuse
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP overvoltage protection, surge protection
- notes:
 - surface mounted enclosure, locking - bolted
- warranty: 2 years from production date

* depending on model

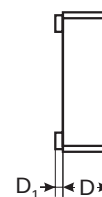
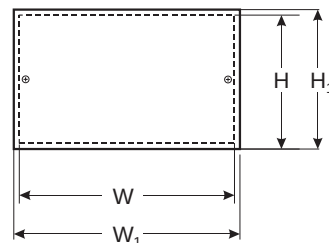
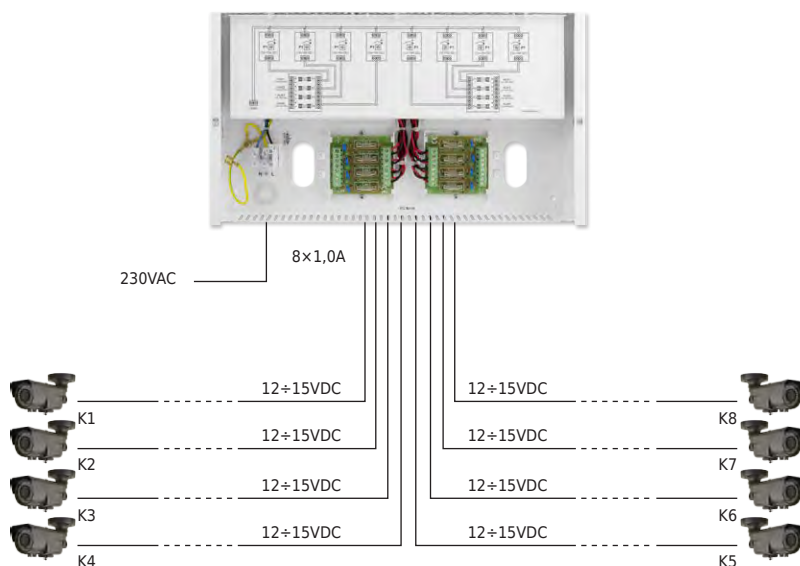


Sample product:
PSDCSEP08128



Code	Output voltage	Adjustable output voltage	Output current	Number of outputs	Fuse type	Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
PSDCSEP04124	12VDC	4×12÷15VDC	4×1,0A	4×1,0A	1,0A - glass fuse	205×215×72+8 210×220
PSDCSEP08128		8×12÷15VDC	8×1,0A	8×1,0A		365×215×72+8 370×220

Sample product: PSDCSEP08128



Multi-output power supply units 34VDC with galvanic separation of each channel

PSCU series

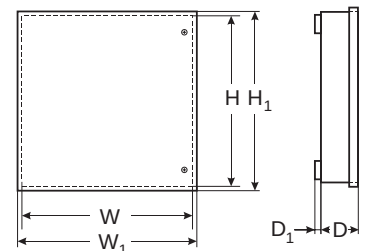
- power supply: 230VAC / 50Hz
- power supply output: 4×34VDC – 1A with galvanic separation of each channel
8×34VDC – 1A with galvanic separation of each channel
- number of outputs × fuse: 4×1,0A / 8×1,0A *
- fuse type: glass fuse
- protections:
 - SCP short circuit protection, OLP overload protection
 - transformer overheat protection OHP, surge protection
- notes:
 - surface mounted enclosure, locking – bolted
 - related products: DCDC...H voltage converters
- warranty: 5 years from production date



Sample product:
PSCU08348SEP

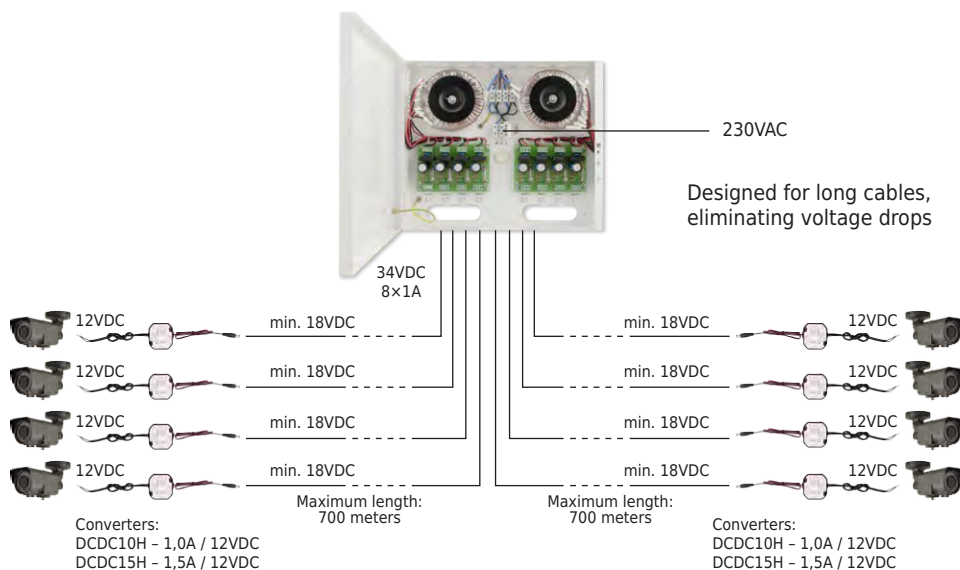
* depending on model

Code	Output voltage	Output current	Number of outputs	Fuse type	Dimensions W×H×D+D ₁ [± 2mm] W ₁ ×H ₁ [± 2mm]
PSCU04344SEP	34VDC	4×1,0A	4×1,0A	1,0A – glass fuse	270×150×72+8 275×154
PSCU08348SEP		8×1,0A	8×1,0A		290×250×72+8 295×255



It is necessary to connect separate DCDC converter before camera
Solution for long sections (above 100m) of camera power cables

Sample product: PSCU08348SEP



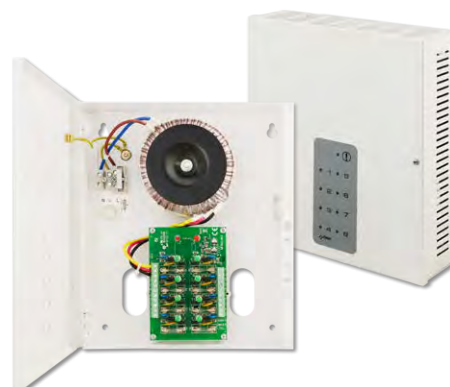
CAUTION:

It is necessary to connect separate DCDC converter before camera, e.g. DCDC10H / DCDC15H

DCDC15H - 1,5A		DCDC10H - 1A		
U_{IN} 18÷40VDC		U_{OUT} 12VDC		
Code	Input voltage	Output voltage	Output current	Dimensions L×W×H / R [mm]
DCDC10H	18÷40VDC	12VDC	1,0A	48×50×25 / 55
DCDC15H			1,5A	58×58×28 / 62

Multi-output power supply units ~24VAC with fault outputs PSAC series

- power supply: 230VAC / 50Hz
- available models: ~24VAC / 8×0,75A or ~27VAC / 8×0,69A
- voltage adjustment range: ~24VAC or ~27VAC
- number of outputs × fuse: 8×1,0A
- jumper selectable fuse type: glass fuse / PTC
- technical outputs OC type:
 - FPS – indication of fuse failure in camera circuit
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OHP overheat protection
 - surge protection
 - antisabotage protection
- notes:
 - surface mounted enclosure, locking – bolted
- warranty: 5 years from production date



PSAC08246



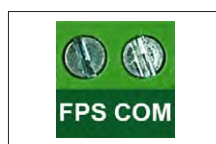
LED optical indication



Tamper indicating enclosure opening – 1 piece



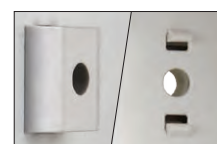
Jumper selectable fuse type: glass fuse / PTC



Technical outputs
– OC type
FPS – fuse failure



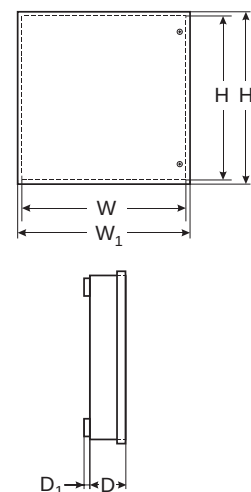
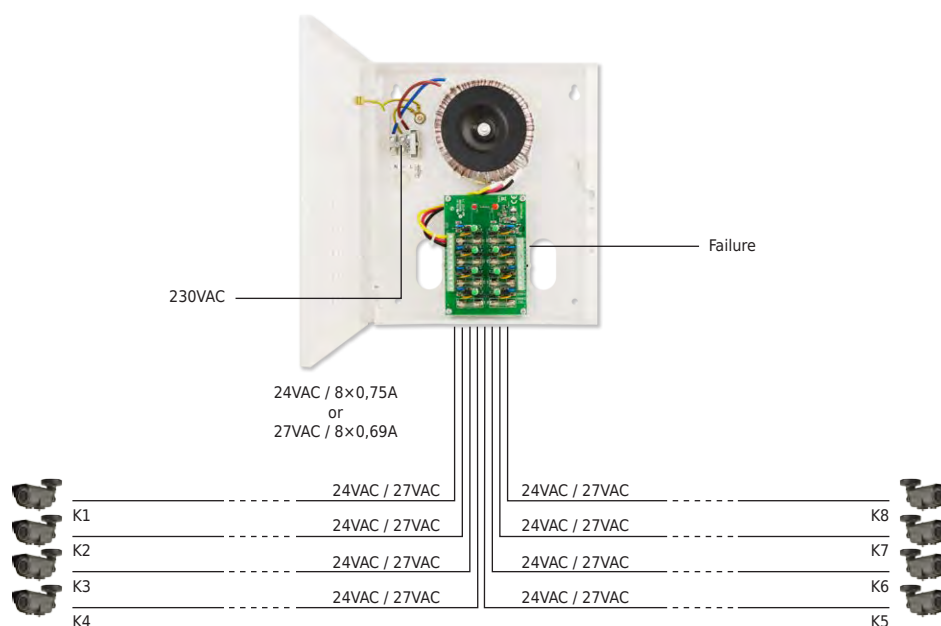
Removable hinges



Distance from wall (plastic) – 8mm

Code	Output voltage	Output current	Number of outputs	Fuse type (jumper selectable fuse type)	Technical outputs	Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
PSAC08246	24VAC or 27VAC	6,0A or 5,5A	8×0,75A or 8×0,69A	1,0A – glass fuse / PTC	✓	210×242×62+8 214×246

PSAC08246



Multi-output power supply units ~24VAC in hermetic enclosure IP65 PSACH series

- power supply: 230VAC / 50Hz
- available models: ~24VAC / 1×4,0A or ~27VAC / 1×3,7A
~24VAC / 1×6,0A or ~27VAC / 1×5,5A
- number of outputs × fuse: 1×4,0A / 1×6,0A *
- fuse type: glass fuse
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OHP overheat protection
 - antisabotage protection
- notes:
 - hermetic enclosure IP65, ABS
 - surface mounted enclosure, locking - bolted
- warranty: 2 years from production date

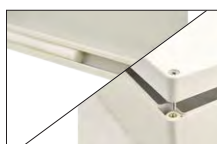
* depending on model



Sample product:
PSACH01246



Tamper indicating enclosure
opening - 1 piece



Gasket
Closing - front mounting
- 4 pieces



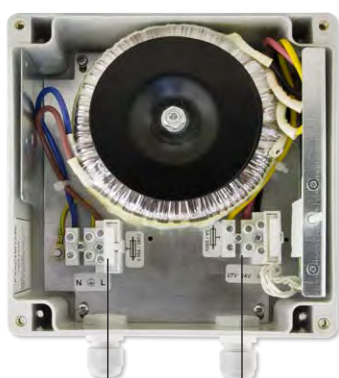
Mounting plate



Hermetic enclosure IP65
Material: ABS

Code	Output voltage	Output current	Number of outputs	Fuse type	Number of cable glands / Ø cables	Mounting dimensions $W_1 \times H_1$ [± 2mm]	Dimensions $W \times H \times D$ [± 2mm] H_2 [± 2mm]
PSACH01244	24VAC or 27VAC	4,0A or 3,7A	1×4,0A or 1×3,7A	4,0A - glass fuse	2 pieces / 4÷8mm	126×145	160×160×90 25
PSACH01246		6,0A or 5,5A	1×6,0A or 1×5,5A	6,0A - glass fuse			

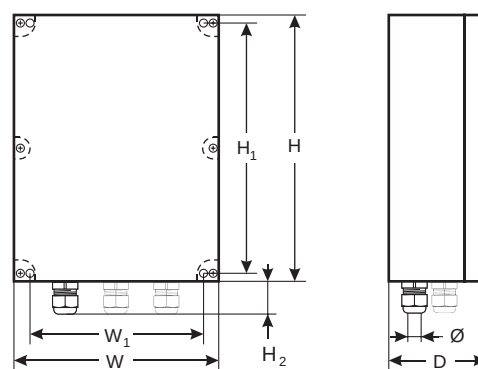
Sample product: PSACH01246



24VAC / 1×6A
or
27VAC / 1×5,5A

230VAC

K1



Multi-output buffer power supply units 13,8VDC PSDCB series

- power supply: 176÷264VAC
- available models: 13,8VDC / 5×1,0A
13,8VDC / 9×1,0A
- battery charging current: 1A / 2A / 4A *
- number of outputs × fuse: 5×1,0A / 9×1,0A
- fuse type: glass fuse
- fitting battery: 17Ah
- deep discharge battery protection – UVP
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - OHP overheat protection
 - antisabotage protection
- notes:
 - surface mounted enclosure, locking – bolted (lock assembly possible)
- warranty: 2 years from production date



Sample product:
PSDCB09129C

* depending on model



LED optical indication



Tamper indicating enclosure
opening – 1 piece



Closing – front mounting
– 2 pieces



Fuse-protected output:
glass fuse



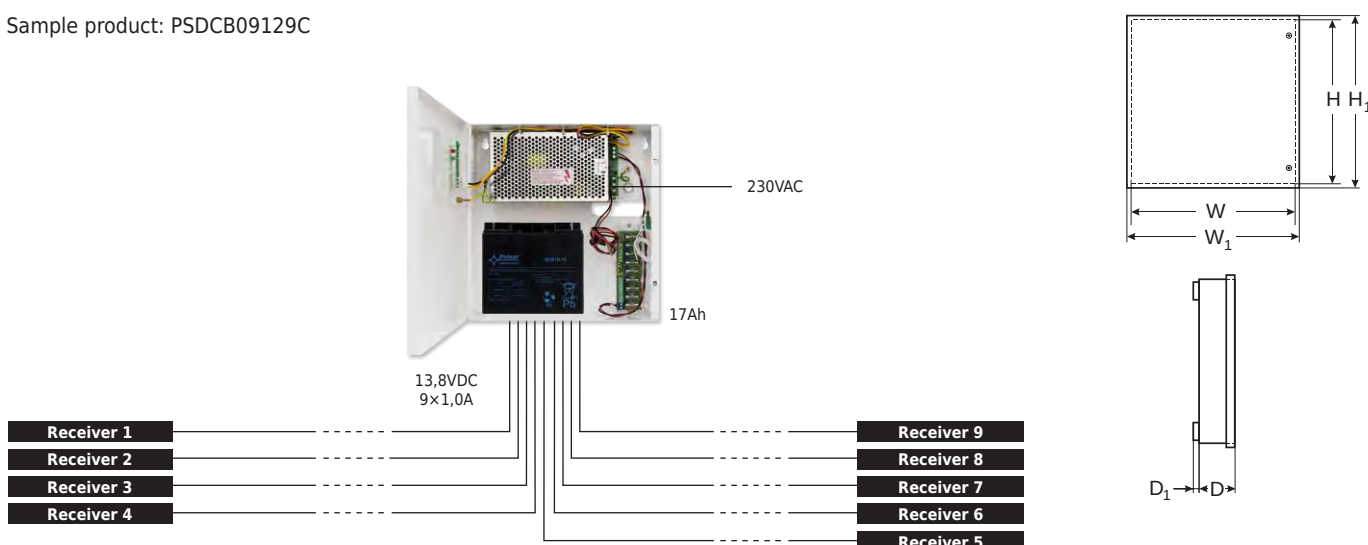
Removable hinges



Distance from
wall (plastic) – 8mm

Code	Output voltage	Total current	Number of outputs	Battery charging current	Fitting battery	Fuse type	Dimensions W×H×D+D ₁ [± 2mm] W ₁ ×H ₁ [± 2mm]
PSDCB05125C	13,8VDC	7,0A	5×1,0A	1,0A / 2,0A	17Ah	1,0A – glass fuse	280×292×82+8 285×296
PSDCB09129C		11,0A	9×1,0A	1,0A / 4,0A			

Sample product: PSDCB09129C



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic
lock



Electric strike



Intercom



Video intercom

Buffer power supply units 13,8VDC / 12VDC for HD cameras and DVR PSUPS series

- power supply: 176÷264VAC
- available models: 13,8VDC / 8×0,75A + 12VDC / 1×4,0A
13,8VDC / 16×0,8A + 12VDC / 1×5,0A
- battery charging current: 1A / 2A / 4A / 8A *
- number of outputs × fuse:
 - cameras: 8×1,0A / 16×1,0A *
 - recorder: 1×5A
- fuse type: glass fuse
- fitting battery: 17Ah / 65Ah *
- deep discharge battery protection - UVP
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP overvoltage protection, surge protection
 - OHP overheat protection, antisabotage protection
- notes:
 - surface mounted enclosure, locking - bolted
 - built-in power factor correction system (PFC)
 - forced cooling - built-in fan *
- warranty: 2 years from production date



Sample product:
PSUPS20A12E

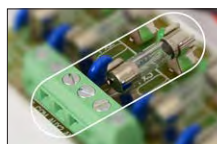
* depending on model



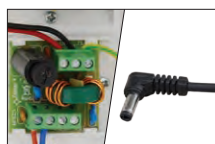
LED optical indication



Tamper indicating enclosure
opening - 1 piece



Outputs of cameras
fuses



Recorder power supply
output



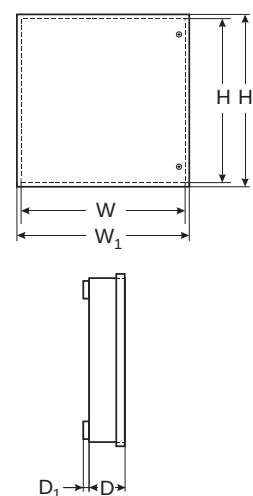
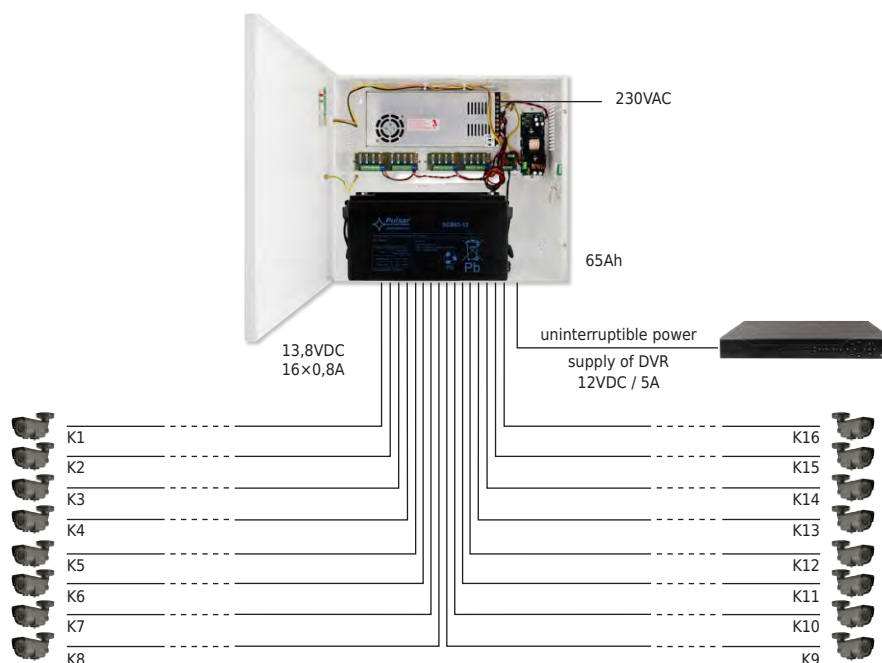
Fitting battery



Distance from wall (plastic)
- 8mm / 14mm *

Code	Circuit	Output voltage	Total current	Number of outputs	Battery charging current	Fuse type	Fitting battery	Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
PSUPS10A12C	cameras	13,8VDC	11A	8×0,75A	1A	1,0A - glass fuse	17Ah	400×350×92+8 405×355
	recorder	12VDC		1×4,0A		5,0A - glass fuse		
PSUPS20A12E	cameras	13,8VDC	20A	16×0,8A	2A / 4A / 8A	1,0A - glass fuse	65Ah	420×375×183+14 425×378
	recorder	12VDC		1×5,0A		5,0A - glass fuse		

Sample product: PSUPS20A12E



Buffer power supply units 13,8VDC/12VDC for HD cameras and DVR with recorder space PSUPS...CR series

Enclosure construction is compliant with requirements of General Data Protection Regulation GDPR (possibility of installing two locks with different codes).

- power supply: 176÷264VAC
- available models: 13,8VDC / 8×0,75A + 12VDC / 1×4,0A
13,8VDC / 16×0,8A + 12VDC / 1×5,0A
- battery charging current: 1A / 2A / 4A / 8A *
- number of outputs × fuse:
 - cameras: 8×1,0A / 16×1,0A *
 - recorder: 1×5A
- fuse type: glass fuse
- fitting battery: 17Ah / 2×17Ah * – parallel connection
- deep discharge battery protection – UVP
- protections:
 - SCP short circuit protection, OLP overload protection OVP overvoltage protection
 - surge protection, OHP overheat protection *, antisabotage protection
- notes:
 - enclosure is fitted with a recorder space
 - surface mounted enclosure, locking – bolted
 - built-in power factor correction system (PFC) *
 - forced cooling – built-in fan *
- warranty: 2 years from production date

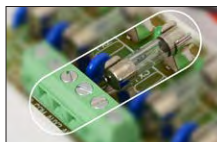
* depending on model



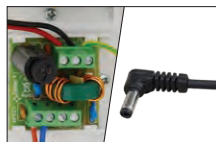
LED optical indication



Tamper indicating enclosure opening - 1 piece



Outputs of cameras fuses



Recorder power supply output



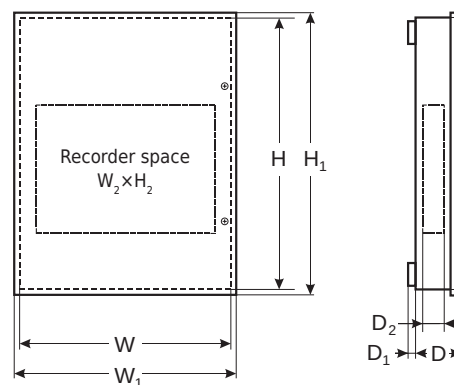
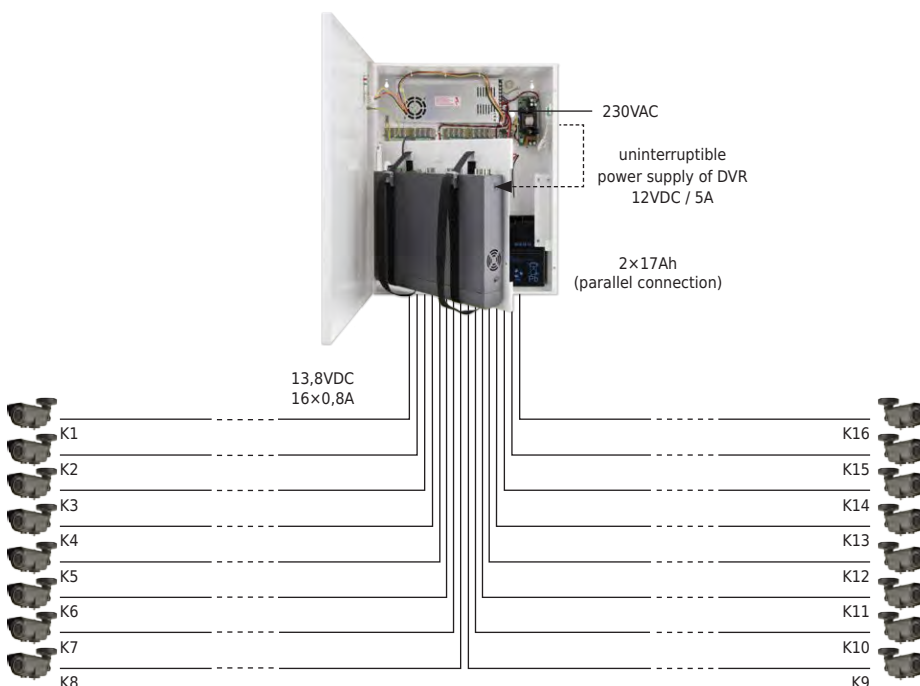
Fitting battery



Hinged mounting plate with straps for mounting DVR

Code	Circuit	Output voltage	Total current	Number of outputs	Battery charging current	Fuse type	Fitting battery	Dimensions of recorder space $W_2 \times H_2 \times D_2$ [+/- 2mm]	Dimensions $W \times H \times D + D_1$ [+/- 2mm] $W_1 \times H_1$ [+/- 2mm]
PSUPS10A12CR	cameras	13,8VDC	11A	8×0,75A	1A	1,0A - glass fuse	17Ah	380×320×65	420×535×193+14 425×540
	recorder	12VDC		1×4,0A		5,0A - glass fuse			
PSUPS20A12CR	cameras	13,8VDC	20A	16×0,8A	2A / 4A / 8A	1,0A - glass fuse	2×17Ah (parallel connection)	380×320×65	420×535×193+14 425×540
	recorder	12VDC		1×5,0A		5,0A - glass fuse			

Sample product: PSUPS20A12CR



Multi-output power supply units 12VDC R series

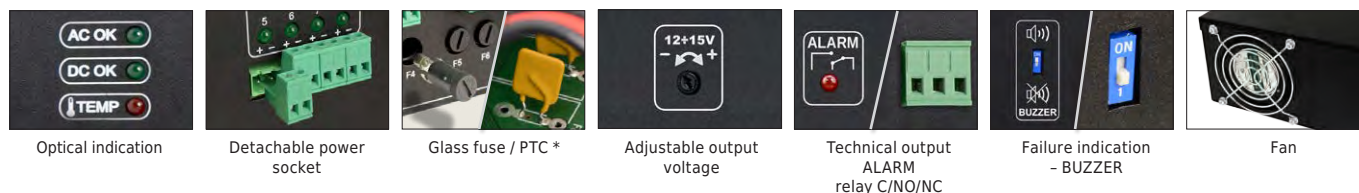
RACK 19"

- power supply: 176÷264VAC
- available models: 12VDC / 16×0,87A
- voltage adjustment range: 12÷15VDC
- number of outputs × fuse: 16×1,5A
- fuse type: glass fuse / PTC *
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP overvoltage protection, surge protection
- technical output of relay type:
 - ALARM - technical output of collective failure
- acoustic indication of failure - BUZZER
- notes:
 - standard RACK 19" - 2U enclosure
- warranty: 2 years from production date



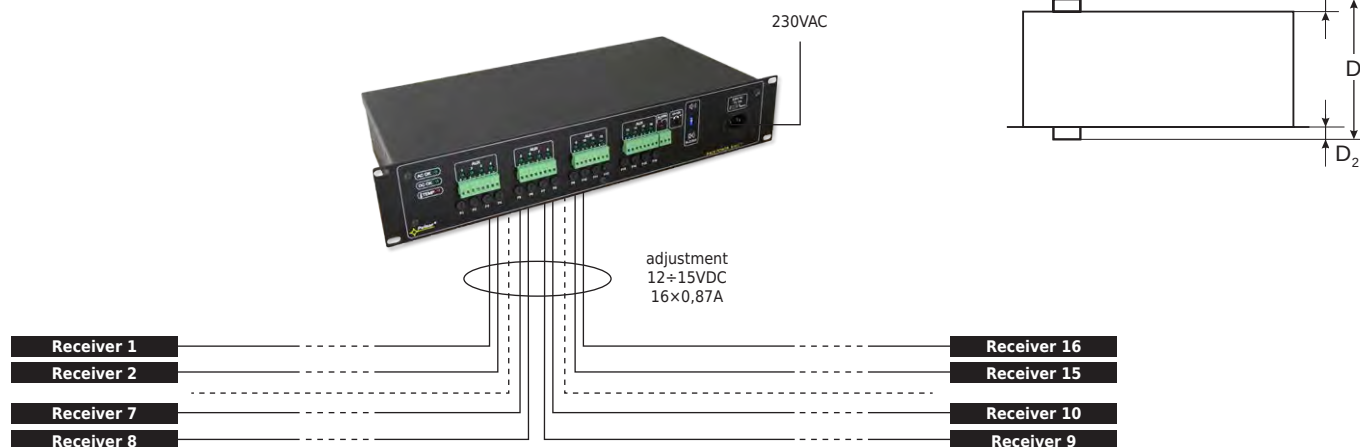
Sample product:
R1612T

* depending on model



Code	Output voltage	Total current	Number of outputs	Fuse type	Technical outputs of alarm	Mounting dimensions W×H×D	Dimensions W / W ₁ / H / D [+/- 2mm] D ₁ / D ₂ [+/- 2mm]
R1612T	12VDC (12÷15VDC)	14A	16×0,87A	1,5A - glass fuse	✓	19"×2U×262	482 / 442 / 88 / 262 5 / 32
R1612P				1,5A - PTC	✓		

Sample product: R1612T



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

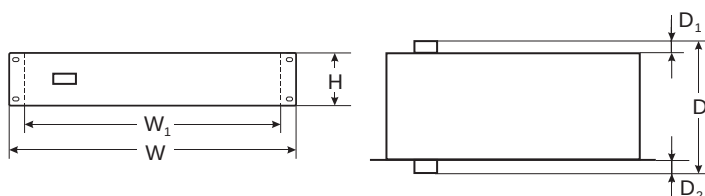
Buffer power supply units - single output 13,8VDC / 27,6VDC / 54VDC ROUPS series

RACK 19"

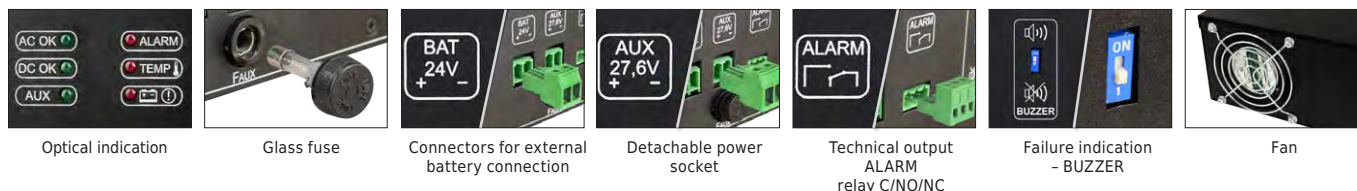
- power supply: 176÷264VAC
- available models: 13,8VDC / 1×18A
27,6VDC / 1×9A
54VDC / 1×4,5A
- number of outputs × fuse: 1×20A / 1×10A / 1×5A *
- fuse type: glass fuse
- battery charging current: 0,5A / 1A / 2A *
- battery: 1×17÷65Ah / 2×7÷28Ah / 4×7÷17Ah *
- deep discharge battery protection - UVP
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP overvoltage protection, surge protection
 - OHP overheat protection
- technical output of relay type:
 - ALARM - technical output of collective failure
- acoustic indication of failure - BUZZER
- notes:
 - standard RACK 19" - 2U enclosure
- warranty: 2 years from production date



Sample product:
ROUPS12V

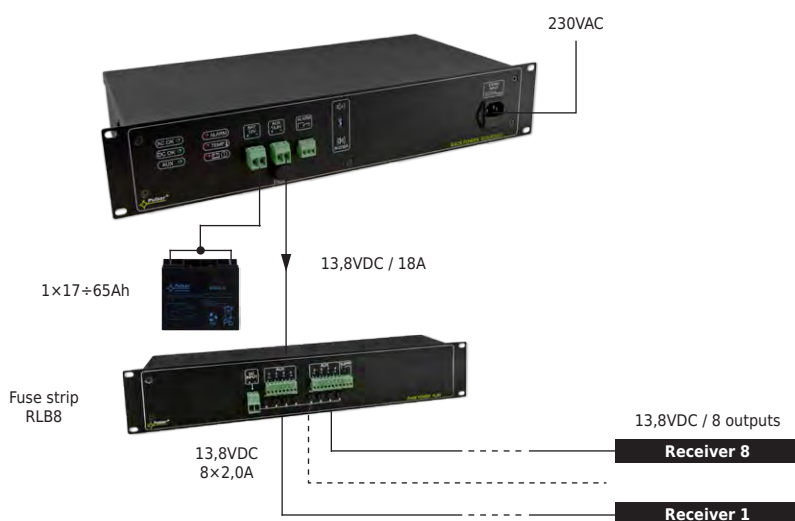


* depending on model



Code	Output voltage	Total current	Number of outputs	Battery charging current (fitting battery)	Fuse type	Technical outputs of alarm	Mounting dimensions W×H×D	Dimensions W / W ₁ / H / D [÷/- 2mm] D ₁ / D ₂ [÷/- 2mm]
ROUPS12V	13,8VDC	20A	1×18A	2A 1×17÷65Ah	20A - glass fuse	✓	19"×2U×262	482 / 442 / 88 / 262 5 / 32
ROUPS24V	27,6VDC	10A	1×9A	1A 2×7÷28Ah	10A - glass fuse	✓		
ROUPS48V	54VDC	5A	1×4,5A	0,5A 4×7÷17Ah	5A - glass fuse	✓		

Sample product: ROUPS12V



Accessories:



Fuse strip: **RLB8**



Battery controller:
RCB12V / RCB24V / RCB48V
RC12V / RC24V / RC48V



Battery enclosure: **RAKU2 / RAKU3**

Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

Distribution fuse modules - 8 outputs dedicated for power supply units of ROUPS... RLB series

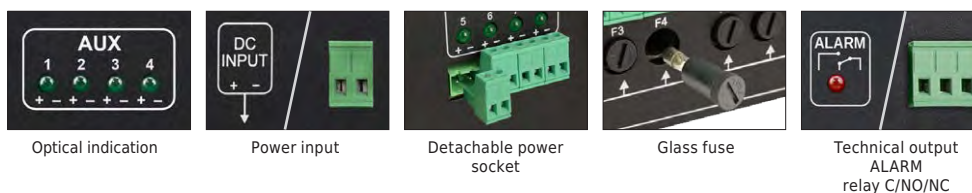
RACK 19"

- power supply: $U_{IN}=10\div56VDC$
- available models: $U_{OUT}=U_{IN} / 8\times2,0A$ (max.)
- number of outputs $\times$ fuse: $8\times2,0A$
- fuse type: glass fuse
- protections:
 - SCP short circuit protection
 - OLP overload protection
- technical output of relay type:
 - ALARM - technical output of collective failure
- notes:
 - standard RACK 19" - 2U enclosure
- warranty: 2 years from production date

* depending on model

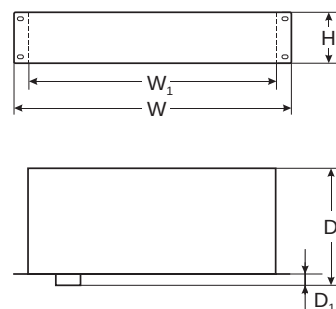
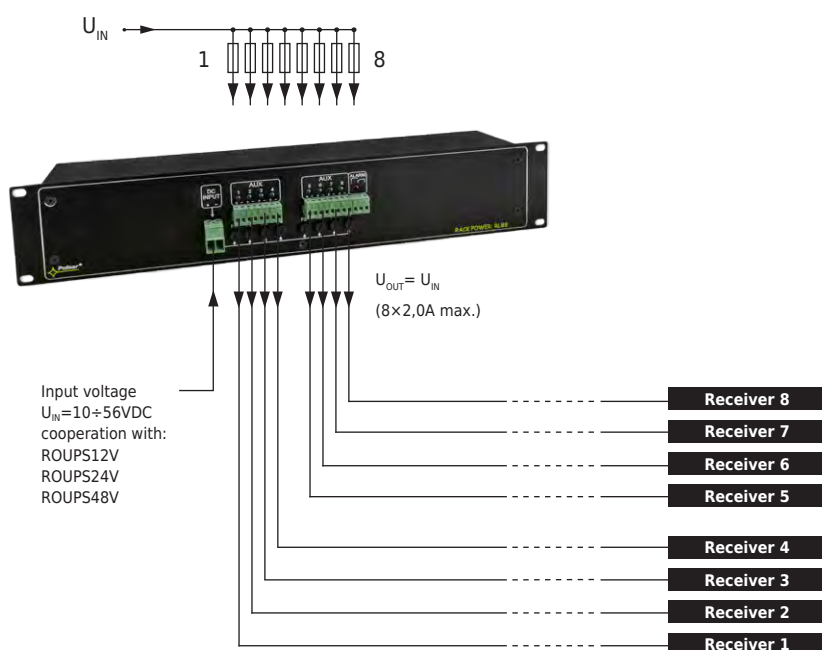


RLB8



Code	Input voltage U_{IN}	Output voltage U_{OUT}	Number of outputs	Fuse type	Technical outputs of alarm	Mounting dimensions $W\times H\times D$	Dimensions $W / W_1 / H / D$ [$\pm 2mm$] D_1 [$\pm 2mm$]
RLB8	10÷56VDC	$U_{OUT} = U_{IN}$	8×2A (max.)	2A - glass fuse	✓	19"×2U×90	482 / 442 / 88 / 90 15

RLB8



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

Multi-output buffer power supply units 13,8VDC + 12VDC / 4A (for up to 16 HD cameras and DVR) RUPS...R series

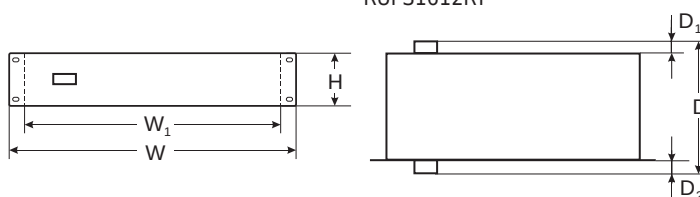
RACK 19"

- power supply: 176÷264VAC
- power supply output: 13,8VDC / 16×0,75A for CCTV cameras
12VDC / 1×4,0A stabilized power supply of recorder
- number of outputs × fuse: 16×1A + 1×4A
- fuse type: glass fuse / PTC *
- battery charging current: 2A
- battery: 1×17÷65Ah
- deep discharge battery protection - UVP
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP overvoltage protection, surge protection
- technical output of relay type:
 - ALARM - technical output of collective failure
- acoustic indication of failure - BUZZER
- notes:
 - standard RACK 19" - 2U enclosure
- warranty: 2 years from production date

* depending on model

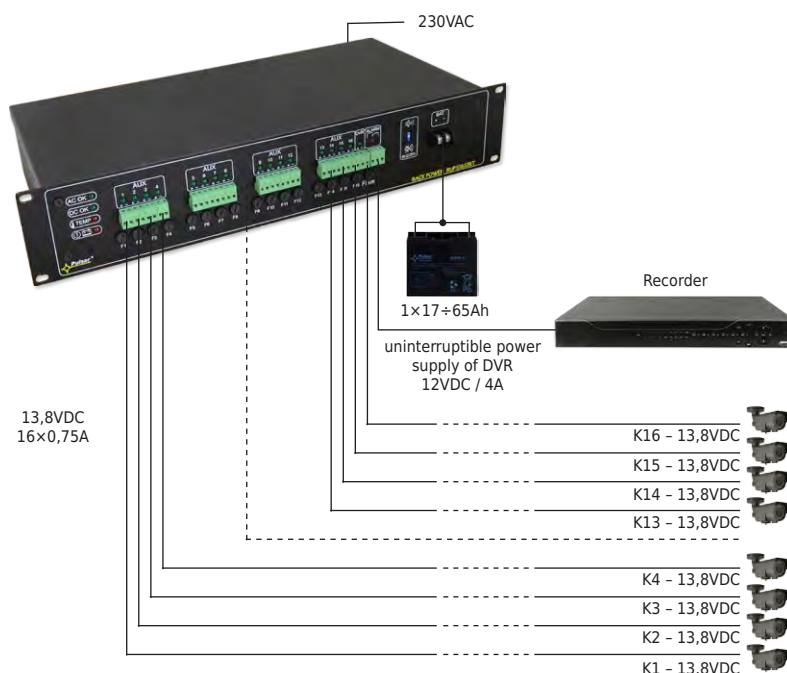


Sample product:
RUPS1612RT



Code	Circuit	Output voltage	Total current	Number of outputs	Battery charging current (fitting battery)	Fuse type	Technical outputs of alarm	Mounting dimensions W×H×D	Dimensions W / W ₁ / H / D [+/- 2mm] D ₁ / D ₂ [+/- 2mm]
RUPS1612RT	cameras	13,8VDC	18A	16×0,75A	2A	1,0A - glass fuse	✓	19"×2U×267	482 / 442 / 88 / 267 32 / 10
	recorder	12VDC		1×4,0A	1×17÷65Ah	4,0A - glass fuse			
RUPS1612RP	cameras	13,8VDC	18A	16×0,75A	2A	1,0A - PTC	✓		
	recorder	12VDC		1×4,0A	1×17÷65Ah	4,0A - glass fuse			

Sample product: RUPS1612RT



Accessories:



Battery controller: **RCB12V, RC12V**



Battery enclosure: **RAKU2 / RAKU3**

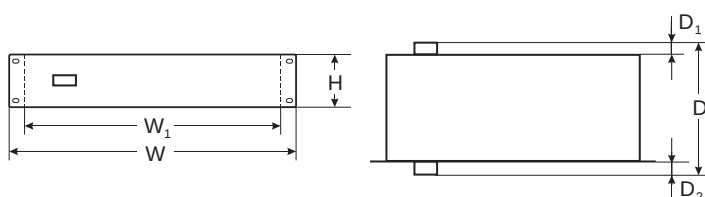
Buffer power supply unit - single output 12VDC / 5A (for recorder) ROUPS...VR series

RACK 19"

- power supply: 176÷264VAC
- available models: 12VDC / 1×5A - stabilized power supply of recorder
- number of outputs × fuse: 1×5A
- fuse type: glass fuse
- battery charging current: 1A
- battery: 1×7÷28Ah
- deep discharge battery protection - UVP
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- technical output of relay type:
 - ALARM - technical output of collective failure
- acoustic indication of failure - BUZZER
- notes:
 - standard RACK 19" - 2U enclosure
- warranty: 2 years from production date



ROUPS12VR



Optical indication



Glass fuse



Connectors for external battery connection



Recorder power supply



Technical output ALARM relay C/NO/NC



Failure indication - BUZZER



Power supply: 230VAC

Code	Output voltage	Total current	Number of outputs	Battery charging current (fitting battery)	Fuse type	Technical outputs of alarm	Mounting dimensions W×H×D	Dimensions W / W ₁ / H / D [+/- 2mm] D ₁ / D ₂ [+/- 2mm]
ROUPS12VR	12VDC	6A	1×5A	1A 1×7÷28Ah	5A - glass fuse	✓	19"×2U×262	482 / 442 / 88 / 262 5 / 32

ROUPS12VR

Accessories:



Battery controller: **RCB12V, RC12V**



Battery enclosure: **RAKU2 / RAKU3**

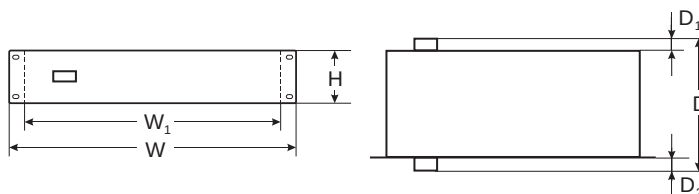
Receiver e.g.



Recorder DVR 12VDC

RACK 19"

-
- RPUPS1248R



Code	Circuit	Output voltage	Total current	Number of outputs	Battery charging current (fitting battery)	Fuse type	Technical outputs of alarm	Mounting dimensions W×H×D	Dimensions W / W ₁ / H / D [+/- 2mm] D ₁ / D ₂ [+/- 2mm]
RPUPS1248R	cameras	54VDC	5A (54VDC)	12×0,3A - RJ45	0,5A 4×7÷17Ah	0,5A - PTC	✓	19"×2U×267	482 / 442 / 88 / 267 32 / 10
	recorder	12VDC		1×4A		5A - PTC			

The diagram illustrates the power and data connections for a PoE NVR system. A black PoE NVR unit is shown at the top left, connected to a 230VAC power source. It features a power input section with a green terminal block for power and a blue terminal block for data. The NVR is connected to a recorder (black unit) and a switch/hub (white unit with 12 ports). The switch/hub is connected to 12 IP cameras (K1-K12). The NVR provides power to the recorder and the switch/hub. The switch/hub provides power to the IP cameras. The NVR also provides power to a 4x7+17Ah battery pack. The recorder and switch/hub are connected to the NVR via data lines. The IP cameras are connected to the switch/hub via RJ-45 cables. The NVR is connected to the recorder and switch/hub via data lines. The NVR is connected to the battery pack via power lines. The NVR is connected to the recorder and switch/hub via data lines. The recorder and switch/hub are connected to the NVR via data lines. The IP cameras are connected to the switch/hub via RJ-45 cables. The NVR provides power to the recorder and the switch/hub. The switch/hub provides power to the IP cameras. The NVR also provides power to a 4x7+17Ah battery pack.

230VAC

uninterruptible power supply of NVR 12VDC / 4A

Data

Recorder

SWITCH / HUB 1 12

RJ-45: IP cameras - PoE Data + uninterruptible power 54VDC

54VDC 12x0,3A

4x7+17Ah

K12 - PoE

K11 - PoE

K10 - PoE

K3 - PoE

K2 - PoE

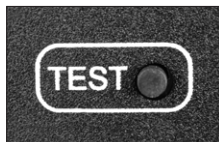
K1 - PoE

Battery enclosure: **RAKU2 / RAKU3**

Battery controllers: 12VDC / 24VDC / 48VDC RCB, RC, AWZ series

- cooperation with 13.8VDC / 27.6VDC / 54VDC uninterruptible power supply units
- fitting battery: 4x7Ah / 4x17Ah *
- microprocessor-based automation system
- an automatic battery test performed every 5 minutes
- test button at front panel
- measurement of resistance of battery circuit
- battery electrical continuity control
- battery detection
- low battery voltage indication - DC operation
- battery output protection against short-circuit and reverse connection
- technical output of failure - relay - NO/NC/COM
- acoustic indication of failure - BUZZER - possibility of switching on / off
- optical indication of failure - LEDs
- mounting dimensions: 19" x 2U
- battery cables included
- warranty: 2 years from production date

* depending on model



Test button at front panel



Acoustic indication of failure - BUZZER - possibility of switching on / off



Technical output of failure - relay - NO/NC/COM

RACK 19"



Sample product:
RCB12V



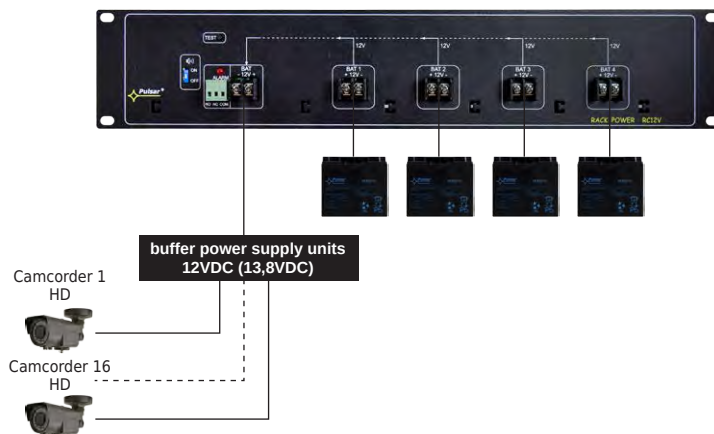
Sample product:
RC12V



Sample product:
AWZ632

Code	Fuse type	Output voltage	Current (max.)	Fitting battery	Maximum total capacity	Technical outputs of alarm	Mounting dimensions WxHxD	Dimensions [±2 mm]	Notes
RCB12V	1xglass fuse - 25A	13,8VDC	20A	4x17Ah	68Ah	✓	19"×2U×425	W / W ₁ / H / D / D ₁ 483 / 435 / 88 / 425 / 15	—
RCB24V	1xglass fuse - 15A	27,6VDC	10A		34Ah				
RCB48V	1xglass fuse - 7,5A	54VDC	5A		17Ah				
RC12V	1xglass fuse - 25A	13,8VDC	20A	n/a	84Ah	✓	19"×2U×60	W / W ₁ / H / D / D ₁ 483 / 412 / 88 / 60 / 15	battery controllers
RC24V	1xglass fuse - 15A	27,6VDC	10A		80Ah				
RC48V	1xglass fuse - 7,5A	54VDC	5A		68Ah				
AWZ632	1xglass fuse - 25A	13,8VDC	20A	n/a	65Ah	✓	—	L / W / H 80 / 108 / 38	—
AWZ633	1xglass fuse - 15A	27,6VDC	10A		40Ah				
AWZ634	1xglass fuse - 7,5A	54VDC	5A		18Ah				

Sample product: RC12V



Buffer power supply units 12VDC:



RUPS series



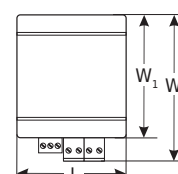
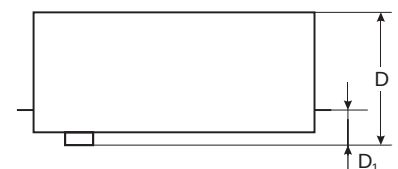
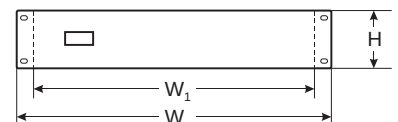
RUPS...VR series



RUPS series



RUPS...R series



DSOP24V Power System for PAVIRO system by BOSCH



**MTP Gold Medal
Securex 2018**

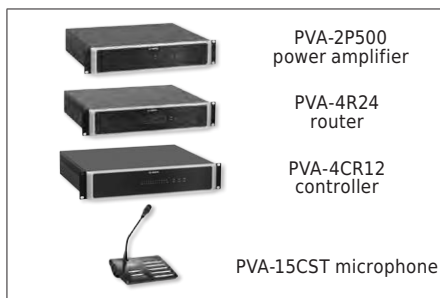


**In accordance with
EN54-4, EN12101-10 standard**

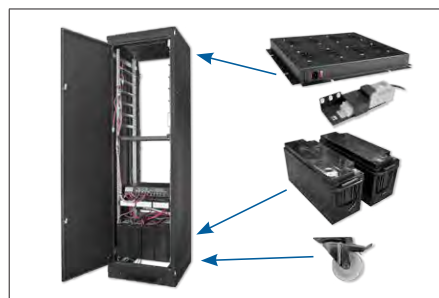
VAS cabinets



Devices VAS: BOSCH - PAVIRO



Fans, thermostat, batteries, wheels



Power supplies for 350W - 1000W
Voice Alarm Systems



Protection terminal block,
230VAC voltage distribution terminal,
Indication panel



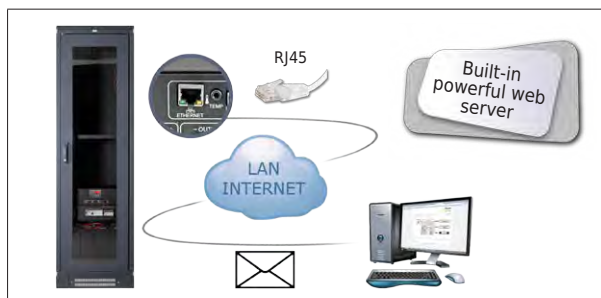
Firefighter's microphone power supply unit,
Enclosure of firefighter's microphone,
Power adapter of firefighter's microphone



CONFI-DSO - Configuration software for VAS



Ethernet communication



Buffer power supplies for DIN rail 13,8VDC / 27,6VDC DINB series

- power supply: 90÷264VAC / 176÷264VAC *
- impulse voltage stabilizer
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection
- warranty: 2 years from production date

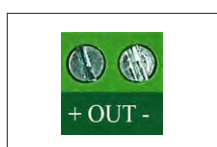
* depending on model



Sample product:
DINB13830



Power input
terminals



Power output
terminals



Connectors for battery
connection

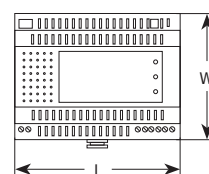
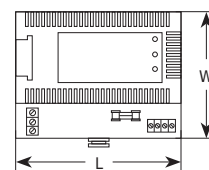


LED optical indication

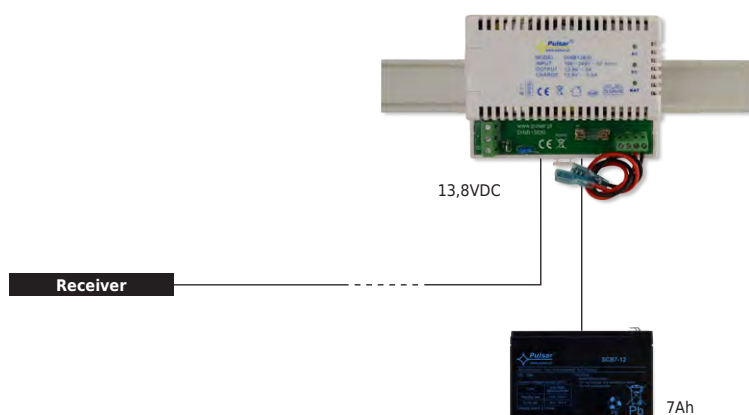


Possibility
of DIN rail mounting

Code	Output voltage	Total current	Battery charging current	Dimensions LxWxH [+/- 2mm]
DINB13830	13,8VDC	3,5A	0,5A	122x93x50
DINB13850		5,5A		122x93x60
DINB27620	27,6VDC	2,2A	0,2A	122x93x50
DINB27630		3,2A		122x93x60



Sample product: DINB13830



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic
lock



Electric strike



Intercom



Video intercom

Plug-in type power supplies 12VDC PSA series

- power supply: 90÷264VAC
- cable length DC – 1,45 m
- output – JACK plug – DC 5.5/2.1 – female
- standby power <0,3W
- efficiency level: V
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection (AC input)
- warranty: 2 years from production date

* depending on model



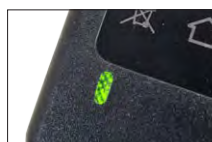
Sample product:
PSA12015



230VAC plug

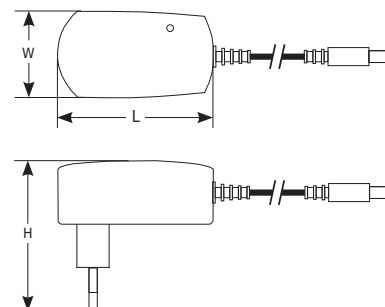


DC plug 5.5/2.1
female



LED optical indication *

Code	Output voltage	Output current	LED indication	Dimensions L×W×H [mm]
PSA12005	12VDC	0,5A	✓	59×39×65
PSA12010		1,0A	—	70×29×76
PSA12015		1,5A	✓	71×46×68



Sample product: PSA12015



Desktop type power supplies 12VDC / 15VDC / 52VDC / 12÷15VDC PSD, PSR series

- power supply: 90÷264VAC
- standby power <0,3W; (<0,5W)
- efficiency level: V
- set includes 230VAC power cable
- cable length DC – 1,45m / 1,5m *
- output – JACK plug – DC 5.5/2.1 – female
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection (AC input)
- warranty: 2 years from production date



Sample product:
PSD12050

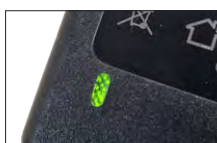
* depending on model



230VAC plug



DC plug 5.5/2.1
female



LED optical indication



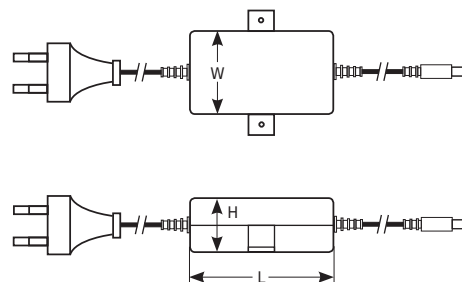
Enclosure fitted with
mounting brackets



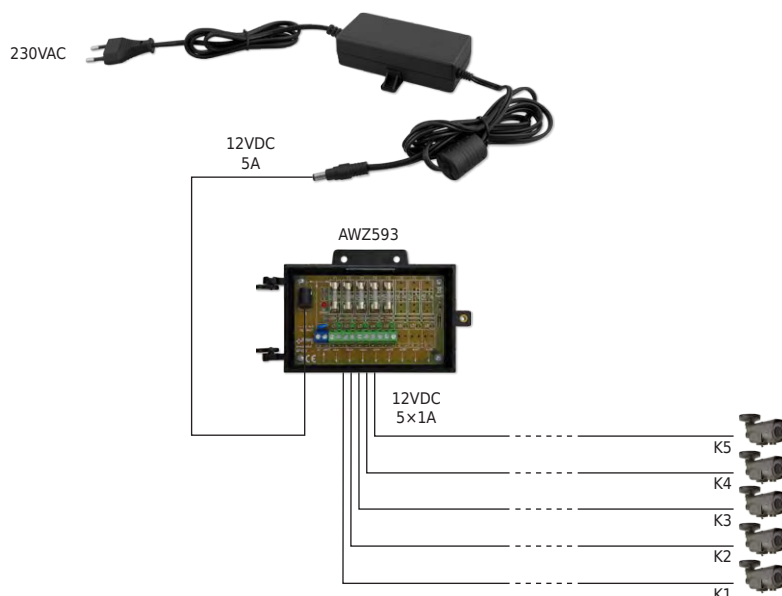
Adjustable output voltage

Applies to: PSR12012

Code	Output voltage	Output current	LED indication	Dimensions L×W×H [mm]
PSD12010	12VDC	1,0A	✓	65×36×30
PSD12020		2,0A	✓	86×50×32
PSD12030		3,0A	✓	107×48×33
PSD12050		5,0A	✓	116×54×35
PSD12070		7,0A	✓	175×72×45
PSD15040	15VDC	4,0A	✓	116×54×35
PSD520115	52VDC	1,15A	✓	116×54×35
PSD520175		1,75A	—	132×61×32
PSD520230		2,3A	✓	172×73×34
PSR12012	12VDC (12÷15V)	1,2A	✓	78×48×35



Sample product: PSD12050



Power supplies 12VDC / 13,8VDC

IP67 hermetic enclosure, epoxy encapsulated

PSC series

- power supply: 90÷264VAC
- IP67 hermetic enclosure – epoxy encapsulated
- cable length DC – 0,5 m
- DC output – JACK plug – DC 5.5/2.1 – female *
- standby power <0,3W
- efficiency level: V
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection (AC input)
- warranty: 2 years from production date

* depending on model



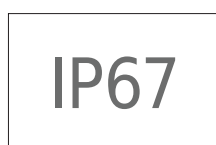
Sample product:
PSC12010



DC plug 5.5/2.1
female *



Suppression filter

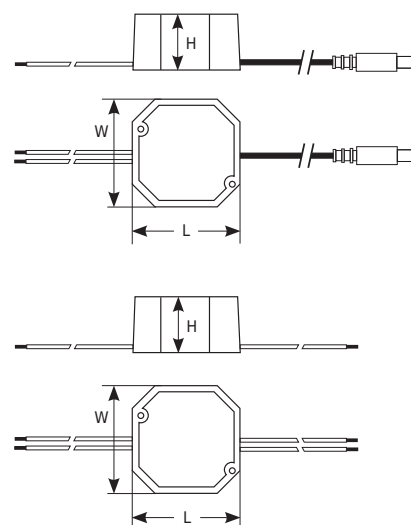


Hermetic
enclosure IP67



Epoxy encapsulated

Code	Output voltage	Output current	Notes	Dimensions L×W×H [mm]
PSC12010	12VDC	1,0A	DC output – JACK plug – DC 5.5/2.1 – female	48×50×25
PSC12015		1,5A		58×58×28
PSC13008	13,8VDC	0,8A	—	48×50×25



Sample product: PSC12010



Desktop type power supplies 12VDC IP67 hermetic enclosure, epoxy encapsulated PSCL series

- power supply: 90÷264VAC
- power supply is not fitted with 230VAC plug, cables are terminated with screw connectors
- IP67 hermetic enclosure – epoxy encapsulated
- cable length DC – 0,5m
- DC output – JACK plug – DC 5.5/2.1 – female
- standby power <0,3W; <0,5W
- efficiency level: V
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection (AC input)
- warranty: 2 years from production date



Sample product:
PSCL12050



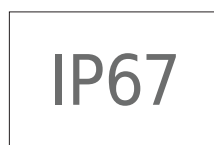
DC plug 5.5/2.1
female



Suppression filter



Enclosure fitted with
mounting brackets

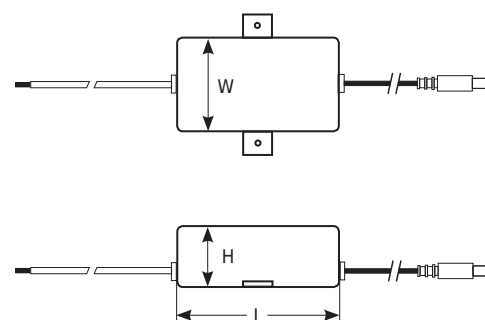


Hermetic enclosure IP67

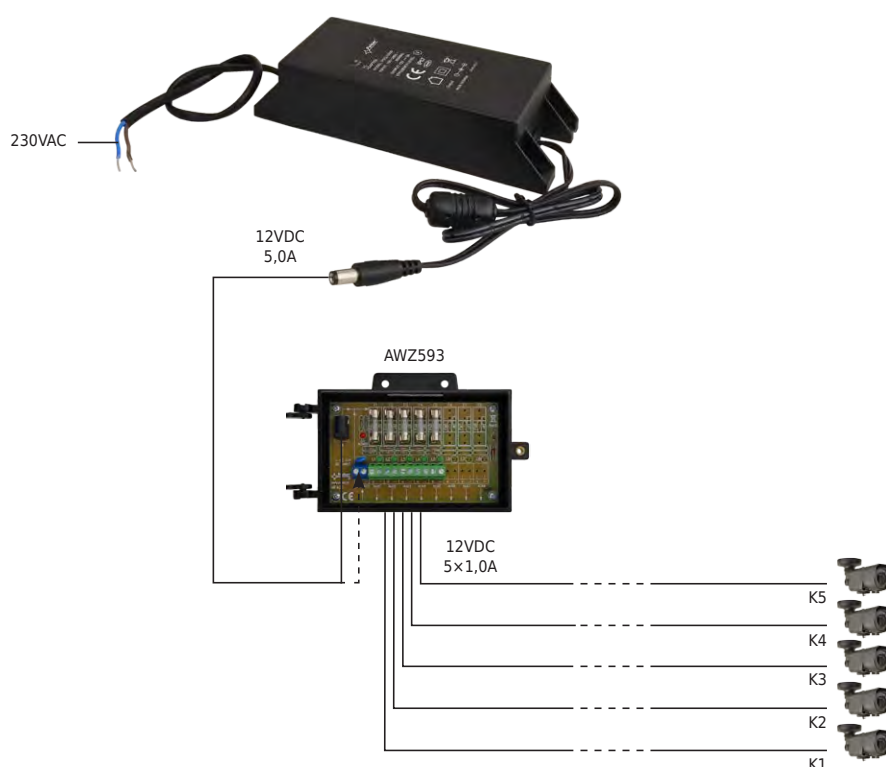


Epoxy encapsulated

Code	Output voltage	Output current	Dimensions L×W×H [mm]
PSCL12015	12VDC	1,5A	69×44×29
PSCL12030		3,0A	135×50×33
PSCL12050		5,0A	150×56×34



Sample product: PSCL12050



Desktop type power supplies 48VDC / 52VDC PSP series

- power supply outputs: 48VDC/0,5A – PoE/RJ45
52VDC/0,3A – PoE/RJ45
- power supply: 90÷264VAC
- compliance with IEEE 802.3af standard *
- LED optical signalization
- protections:
 - SCP short circuit protection *
 - OLP overload protection
 - overvoltage protection (AC input)
- notes:
 - designed for 10 Mb/s and 100 Mb/s network
- warranty: 2 years from production date

* depending on model



Sample product:
PSP52003



RJ45 connectors
- input / output



Ethernet input

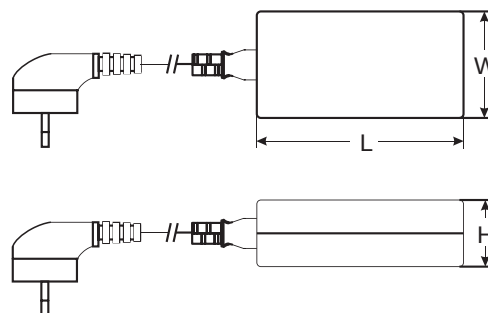


PoE output

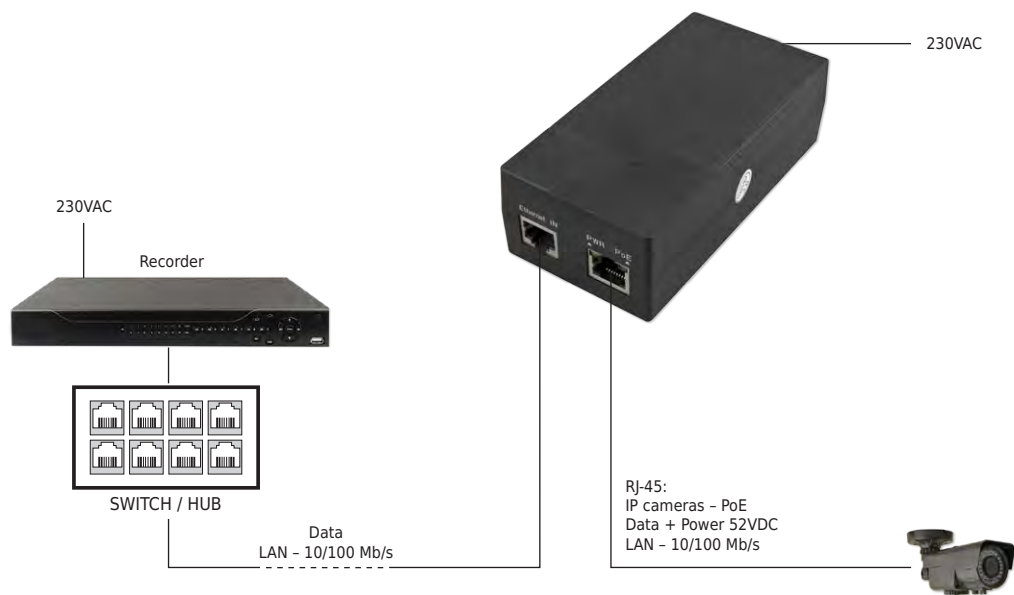


LED optical indication

Code	Output voltage	Output current	Compliance with / IEEE 802.3af standard	Dimensions L×W×H [+/- 2mm]
PSP48005	48VDC	0,5A	—	119×61×38
PSP52003	52VDC	0,3A	✓	



Sample product: PSP52003



Desktop type power supplies, buffer 13,8VDC IP67 hermetic enclosure, epoxy encapsulated PSCLB series

- power supply: 90÷264VAC
- power supply is not fitted with 230VAC plug, cables are terminated with screw connectors
- IP67 hermetic enclosure - epoxy encapsulated
- cable length DC - 0,5m
- DC output - JACK plug - DC 5.5/2.1 - female
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection (AC input)
- warranty: 2 years from production date



Sample product:
PSCLB13830



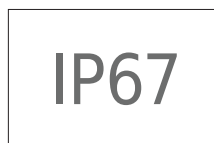
DC plug 5.5/2.1
female



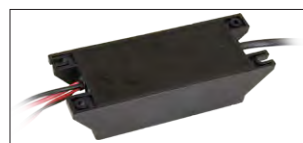
Suppression filter



Enclosure fitted with
mounting brackets

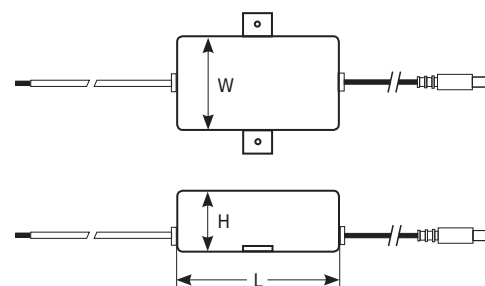


Hermetic enclosure IP67

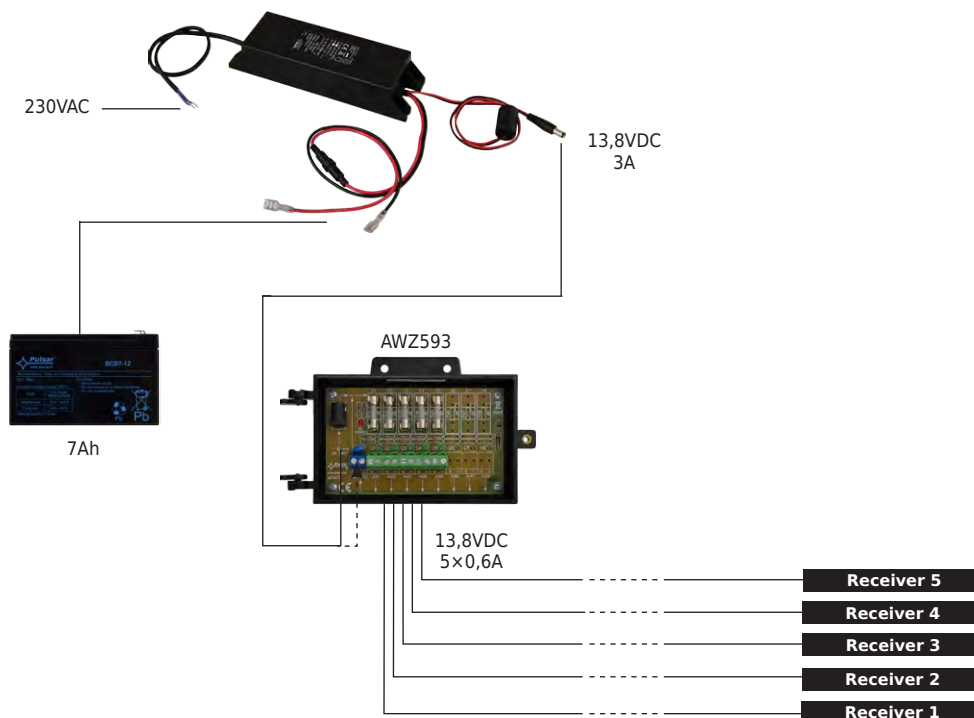


Epoxy encapsulated

Code	Output voltage	Total current	Battery charging current	Dimensions L×W×H [mm]
PSCLB13810	13,8VDC	1,3A	0,3A	135×50×33
PSCLB13820		2,3A		150×56×34
PSCLB13830		3,3A		178×56×34



Sample product: PSCLB13830



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic
lock



Electric strike



Intercom



Video intercom

Accessories for CCTV

Transmitters, PoE Adapters, PoE Splitters, Converters

Code	Type	Connector type input / output	Note
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Transmitters

 P-TR1HD	HD transmitters (passive)	BNC plug / UTP screw terminals	P-TR1HD Set of passive video HD transmitters with BNC plug on cable
 P-TR1HD3	HD transmitters (passive)	BNC plug / self clinching terminal	P-TR1HD3 Set of passive video HD transmitters with BNC plug on cable (self clinching terminal)
 P-TRPV1	HD transmitters (passive)	BNC plug outlet, plug JACK 5.5/2.1 / RJ45 socket	P-TRPV1 Set of passive video HD transmitters and power supply

PoE adapters

 P-POE1	PoE Adapter	RJ45 socket / RJ45 plug outlet, plug JACK 5.5/2.1	P-PoE1 set of adapters with RJ45 or 5.5/2.1 connectors
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Spiltter PoE

 P-POE2	Splitter	RJ45 socket / 2× RJ45 plug	P-POE2 Splitter 2×RJ45 (plug) - 1×RJ45 (socket)
 SP-POE12	Spiltter	RJ45 socket / RJ45 plug plug JACK 5.5/2.1	Splitter PoE SP-POE12

Converters

 HDMI-VGA	Converter	HDMI / VGA	HDMI-VGA signal converter
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Accessories for CCTV

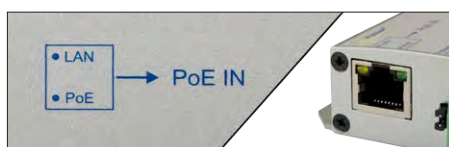
Extenders PoE

- PoE input: PoE IN - compliant with IEEE 802.3af/at
- PoE output: PoE OUT - compliant with IEEE 802.3af *
- increases Ethernet and PoE power range by 100 meters
- power supply supports both 10/100 Mb/s networks
- PoE IN input power supply pairs: 1/2 (+), 3/6 (-) or 4/5 (+), 7/8 (-) *
- PoE OUT output power supply pairs: 4/5 (+), 7/8 (-)
- LED optical signalization
- protections:
 - SCP short circuit protection
 - surge protection (PoE input)
 - OLP overload protection
- warranty: 2 years from production date

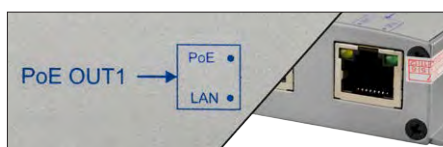
* depending on model



Sample product:
EXT-POE4



PoE IN input



PoE OUT output

Applies to: EXT-POE4



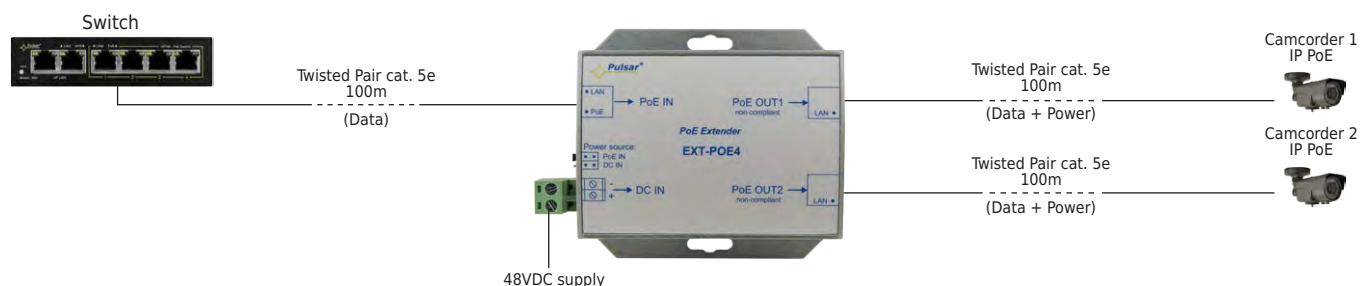
Additional power input:
44÷57VDC (screw connection)

Code	Additional power input	RJ45 input / compliant with IEEE 802.3af/at	RJ45 output / compliant with IEEE 802.3af	Output power	Dimensions LxWxH [+/- 2mm]
EXT-POE1	—	PoE IN / compliant	PoE OUT / compliant	15,4W	81x77x26
EXT-POE2		PoE IN / compliant	PoE OUT1 / compliant PoE OUT2 / compliant	15,4W / port (Σ = 20W)	
EXT-POE3		PoE IN / compliant	PoE OUT1 / compliant PoE OUT2 / compliant PoE OUT3 / not compliant	30W / port (OUT1/2) 15,4W / port (OUT3) (Σ = 30W)	
EXT-POE4	DC IN 44÷57VDC	PoE IN / compatible	PoE OUT1 / not compliant PoE OUT2 / not compliant	15,4W / port (Σ = 20W)	

Sample product: EXT-POE4



Increases Ethernet and PoE power range by 100 meters



Use of locally powered EXT-PoE4 extender
Connection of two IP PoE cameras and extension of range for another 100 meters

Accessories for CCTV

Extenders PoE - in hermetic enclosure IP56

- PoE input: PoE IN – compliant with IEEE 802.3af/at
- PoE output: PoE OUT – compliant with IEEE 802.3af *
- increases Ethernet and PoE power range by 100 meters
- power supply supports both 10/100 Mb/s networks
- PoE IN input power supply pairs: 1/2 (+), 3/6 (-) or 4/5 (+), 7/8 (-) *
- PoE OUT output power supply pairs: 4/5 (+), 7/8 (-)
- LED optical signalization
- protections:
 - SCP short circuit protection, surge protection (PoE input)
 - OLP overload protection
- notes:
 - hermetic enclosure IP56
 - UV resistance
- warranty: 1 year from production date

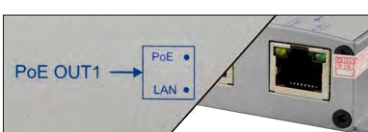


Sample product:
EXT-POE2H

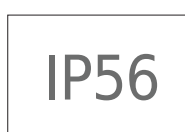
* depending on model



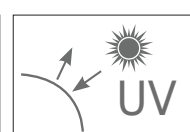
PoE IN input



PoE OUT output



Hermetic enclosure IP56



UV resistance

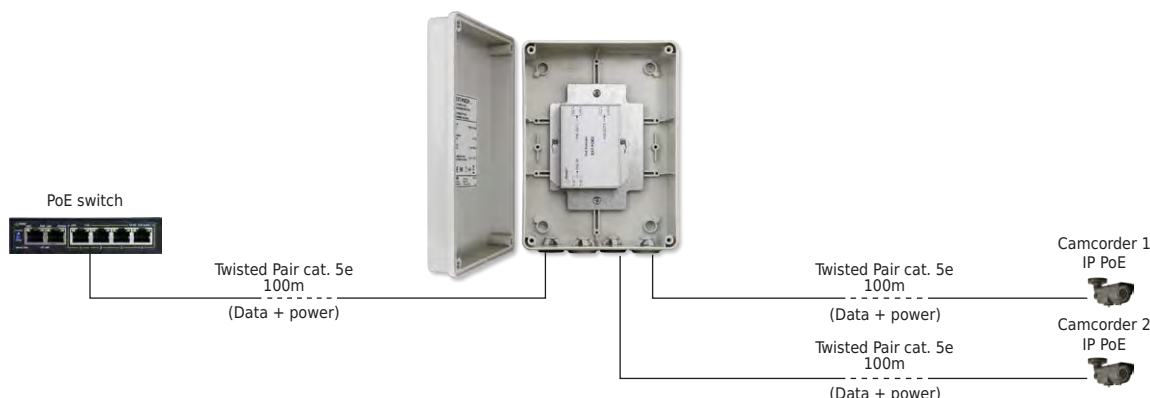
Applies to: EXT-POE4H



Additional power input:
44÷57VDC
(screw connection)

Code	Additional power input	RJ45 input / compliant with IEEE 802.3af/at	RJ45 output / compliant with IEEE 802.3af	Output power	Number of cable glands / Ø cables	Dimensions W×H×D [+/- 2mm]
EXT-POE1H	—	PoE IN / compliant	PoE OUT / compliant	15,4W	4 pieces / 6÷13mm	148×198×78
EXT-POE2H		PoE IN / compliant	PoE OUT1 / compliant PoE OUT2 / compliant	15,4W / port (Σ =20W)		
EXT-POE3H		PoE IN / compliant	PoE OUT1 / compliant PoE OUT2 / compliant PoE OUT3 / not compliant	20W / port (OUT1/2) 15,4W / port (OUT3) (Σ =30W)		
EXT-POE4H	DC IN 44÷57VDC	PoE IN / compatible	PoE OUT1 / not compliant PoE OUT2 / not compliant	15,4W / port (Σ =20W)		

Sample product: EXT-POE2H



Connection of two IP PoE cameras and extension of range for another 100 meters

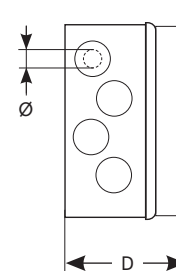
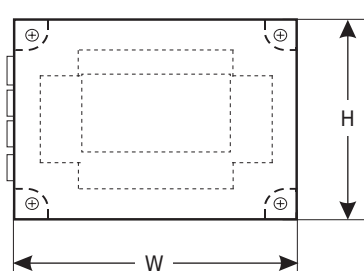
Accessories:



OZB2
(applies EXT-POE...H)



Sample assembly



PoE modules for IP cameras - RJ45

- power supply: 20÷56VDC
- available models: 4×1,0A – RJ45
 - 4×1,0A – RJ45 – angular
 - 4×0,5A – glass fuses (4×1,0A – without fuses) – RJ45
- number of outputs × fuse: 4×0,5A *
- fuse type: glass fuse *
- protections:
 - SCP short circuit protection *
 - OLP overload protection *
 - surge protection
- technical outputs OC and relay type:
 - FPS – fuse failure or power failure DC *
- notes:
 - LED optical indication
 - mounting options: mounting board, adhesive tape
 - number of power inputs: 2 – DC 5.5/2.1 socket or screw terminal
 - max. cable size 1,5mm²
 - designed for 10 Mb/s and 100 Mb/s network
- warranty: 2 years from production date

* depending on model



AWZ602
without fuses



AWZ613
without fuses
angular



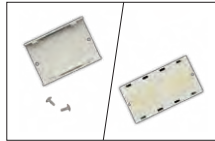
AWZ603
with glass fuses
with technical output of failure



Power input
– screw connection
– socket DC 5.5/2.1



RJ45 connector
input / output:



Installation:
– mounting screws
– adhesive tape



Construction –
„open frame”



Fuse-protected output:
glass fuse

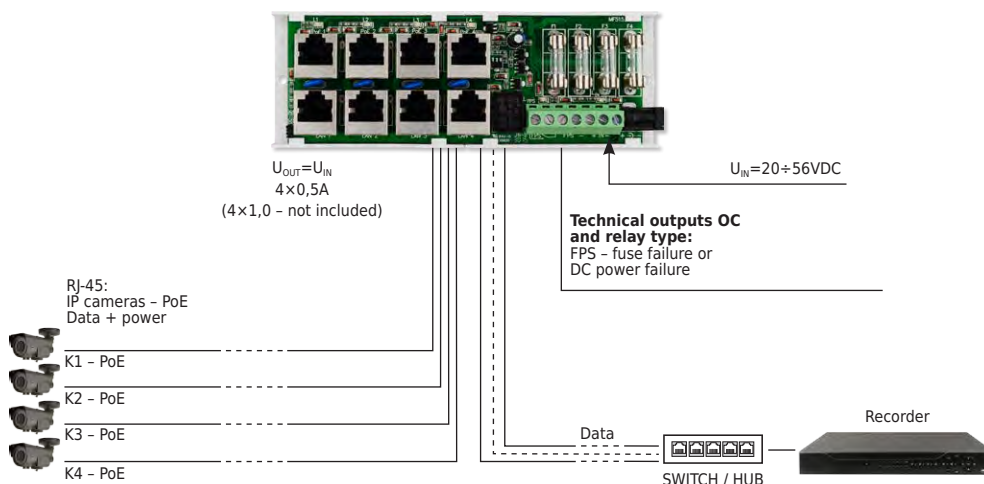


Technical output of battery
failure O/NC
– open collector – OC

Applies to: AWZ603

Code	Input voltage	Output voltage	Number of outputs: RJ45	Fuse type	Technical outputs	Power input		Dimensions L×W×H [±/ 2mm]
						screw connection (1,5mm ²)	DC 5.5/2.1 outlet	
AWZ602	20÷56VDC	U _{PoE} =U _{IN}	4×1,0A	—	—	✓	✓	105×43×25
AWZ613			4×1,0A (angled)	—	—	✓	✓	75×53×33
AWZ603			4×0,5A (4×1,0A)	0,5A – glass fuse (1,0A – glass fuse – without fuses)	✓	✓	✓	150×53×25

Sample product: AWZ603

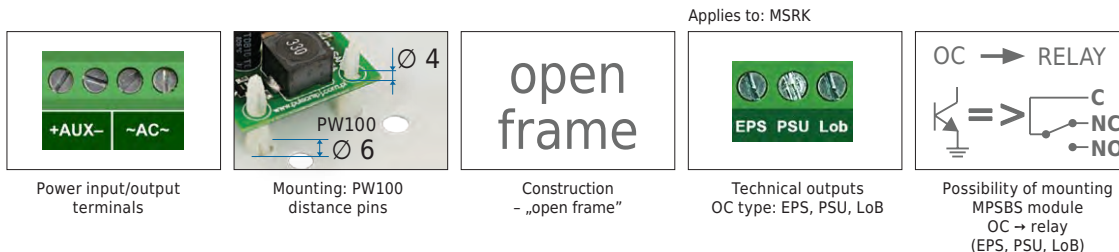


Buffer power supply modules 13,8VDC switch mode, with technical outputs MS / MSRK series

- available models: MS series 13,8VDC / 2A
MSRK series 13,8VDC / 2A; 3A
- impulse voltage stabilizer
- supply voltage: external transformer required 18÷22VAC
- battery charging and maintenance control
- battery output short circuit protection and reverse polarity connection
- protections:
 - SCP short circuit protection, OLP overload protection
 - OHP overheat protection, surge protection
- for MSRK series:
 - technical outputs OC type:
EPS – 230V power failure AC, PSU – power supply failure,
LoB – low battery voltage, deep discharge battery protection (UVP)
 - adjustable times indicating AC power failure
 - START facility for manual battery connection
- warranty: 5 years from production date



Sample product:
MSRK3012



Code	Output current	Total current	Battery charging current	Technical outputs	Deep discharge battery protection	Dimensions L×W×H [+/- 2mm]
MS2012	13,8VDC	2,2A	0,2A / 0,5A	—	—	75×55×40
MSRK2012				✓	✓	86×63×40
MSRK3012		3,5A	0,5A / 1,0A	✓	✓	88×93×55

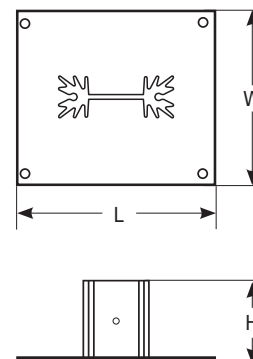
Accessories:



Transformers of TRP, TRZ series



MPSBS
relay module of PSBS technical outputs



DC/DC voltage converters

open frame, with technical output

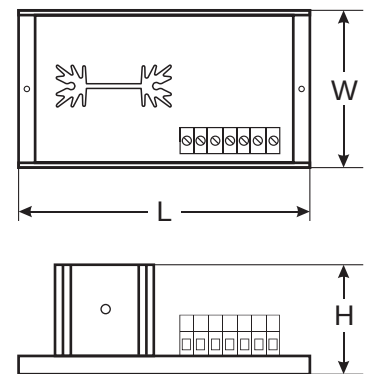
DC/DC series

- power supply: 8÷28VDC; 28÷60VDC; 9,5÷16VDC; 9,5÷28VDC; 18÷28VDC; 20÷28VDC *
- available models:
 - step down voltage converters:
 - with adjustable output voltage: 4,5÷19VDC / 1A / 2A *
 - 4,5÷24VDC / 5A *
 - 12÷24VDC / 5A *
 - without adjustment: 12VDC / 5A with galvanic isolation: input / output
 - step up / step down voltage converters:
 - with adjustable output voltage: 5÷15VDC / 2A *
 - without adjustment: 12VDC / 5A with galvanic isolation: input / output
 - step up voltage converters:
 - with adjustable output voltage: 18÷28VDC / 2,5A
 - without adjustment: 48VDC / 1,25A / 2,5A *
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP over voltage protection *, OHP overheat protection *
- technical output OC type:
 - PSU - converter failure *
- notes:
 - construction: „open frame“
 - installation: mounting panel with adhesive tape / mounting screws
 - minimum difference between input voltage and output voltage is: **2÷3VDC** *
- warranty: 2 years from production date

* depending on model



Sample product:
DC/DC50SD



Code	Input voltage	Output voltage	Output current	Technical output of battery failure	Dimensions L×W×H [± 2mm]
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step down voltage converters

DC/DC10SD	8÷28VDC	4,5÷19VDC	1A/12VDC	✓	80×43×27
DC/DC20SD			2A/12VDC	✓	100×43×27
DC/DC50SD		4,5÷24VDC	5A/12VDC	✓	140×43×45
DC/DC50SD-SEP with separation	20÷28VDC	12VDC	5A/12VDC	—	150×54×60
DC/DC50HV	28÷60VDC	12÷24VDC	5A/12VDC	✓	140×43×45



step up / step down voltage converters

DC/DC20SE	9,5÷16VDC	5÷15VDC	2A/12VDC	✓	110×43×37
DC/DC50SE-SEP with separation		12VDC	5A/12VDC	—	150×54×60



step up voltage converters

DC/DC25SU	9,5÷16VDC	18÷28VDC	2,5A/24VDC	✓	140×43×45
DC/DC48125	18÷28VDC	48VDC	1,25A/48VDC	✓	130×43×45
DC/DC48250			2,5A/48VDC	✓	140×43×45



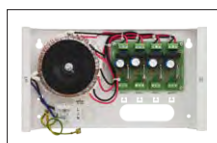
DCDC voltage converters - 12VDC switch mode, hermetic IP67, epoxy encapsulated DCDC...H series

- power supply: 18÷40VDC
- available models, output voltage: 12VDC / 1A; 1,5A
- hermetic enclosure IP67, ABS, epoxy encapsulated
- length of DC input cable: 0,3m
- length of DC output cable: 0,5m + DC plug 5.5/2.1 female
- protections:
 - OLP overload protection, SCP short circuit protection
 - against reverse input voltage polarity
- notes:
 - mounting: 2 Ø3,2mm holes
- warranty: 2 years from production date



Sample product:
DCDC10H

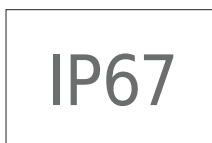
Dedicated for power supply of PCSU series



Dedicated for power supply
of PCSU series



DC plug 5.5/2.1
female

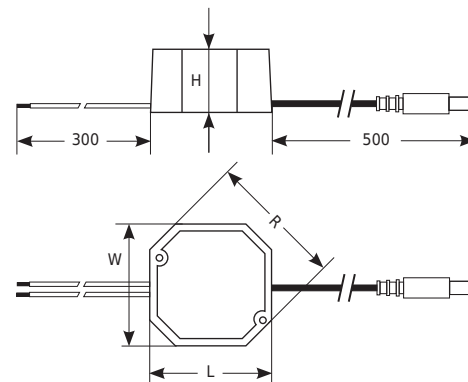


Hermetic enclosure IP67



Epoxy encapsulated

Code	Input voltage	Output voltage	Output current	Dimensions LxWxH / R [mm]
DCDC10H	18÷40VDC	12VDC	1,0A	48x50x25 / 55
DCDC15H			1,5A	58x58x28 / 62



DCDC voltage converters - 12VDC DC/DC series - in plastic enclosure

- power supply: 18÷30VDC
- available models, output voltage: 12VDC/0,5A
- length of DC input cable: 0,13m + screw connection / 5.5/2.1 JACK socket - male *
- length of DC output cable: 0,13m + DC plug 5.5/2.1 female
- protections:
 - against reverse input voltage polarity
- warranty: 1 year from production date

* depending on model



Screw connection *



5.5/2.1 JACK socket - male *



DC plug 5.5/2.1 female



Sample product:
DC/DC05-J

Code	Input voltage	Output voltage	Output current	Notes		Dimensions LxWxH [mm]
				input	output	
DC/DC05	18÷30VDC	12VDC	0,5A	screw connection	DC plug 5.5/2.1 female	50x20x18
DC/DC05-J				5.5/2.1 JACK socket - male		

Power supply module for CCTV

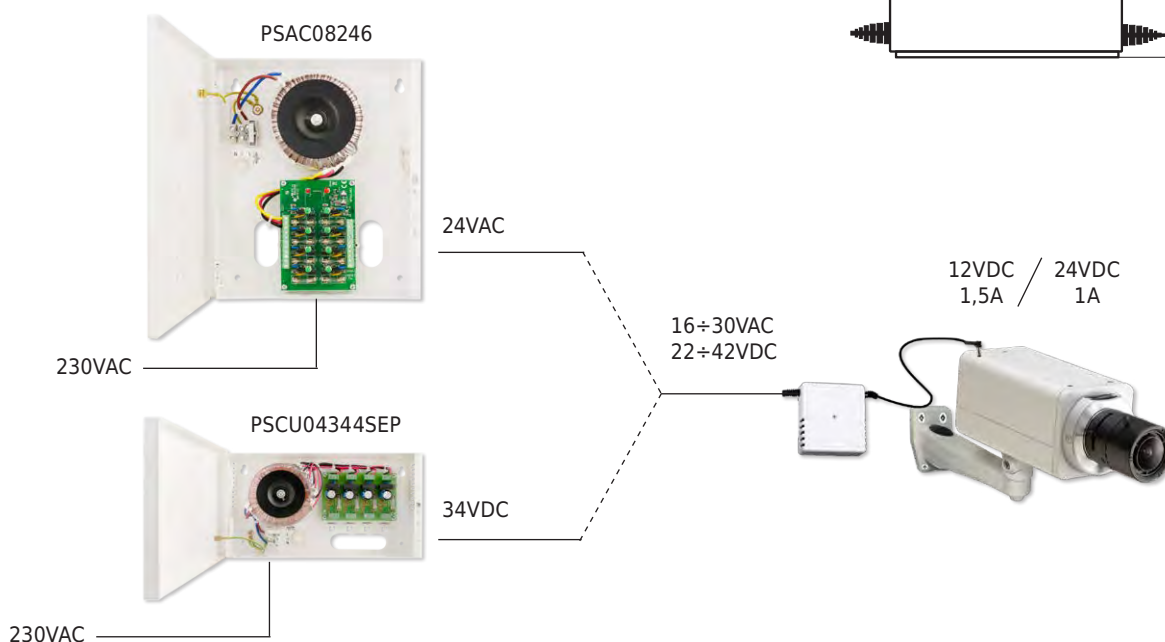
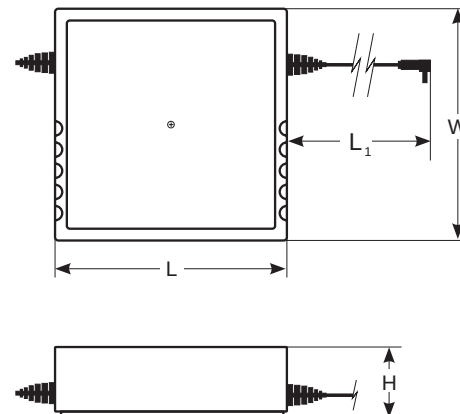
AC/DC inverter and DC/DC converter (step-down converter)

For installation in CCTV cameras

- supply voltage: 16÷30VAC, 22÷42VDC
- output voltage: 12VDC / 1,5A or 24VDC / 1A (jumper selectable)
- high efficiency 90%
- optical indication LED
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection
- warranty: 5 years from production date



Code	Input voltage	Output voltage	Output current	Plastic enclosure	Dimensions L×W×H [± 2mm] L ₁ [± 2mm]
MSC1512	16÷30VAC, 22÷42VDC	12 / 24VDC	1,5A / 1A	✓	70×70×28 92



Voltage reducers - linear

13,8VDC → 12VDC

27,6VDC → 24VDC

RN series

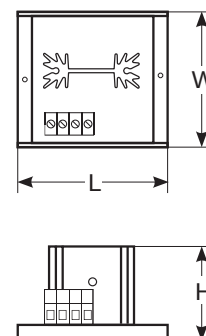
- available models: 12VDC / 5A
24VDC / 2,5A
- supply voltage: 12÷14VDC for 12V version
24÷28VDC for 24V version
- voltage adjustment range: $11V \div U_{IN}$ / $22V \div U_{IN}$
- linear voltage regulator
- lossless conductivity below stabilisation threshold
- protections:
 - SCP short circuit protection
 - OLP overload protection
- installation:
 - installation: screw, mounting pins or adhesive tape
- warranty: 2 years from production date



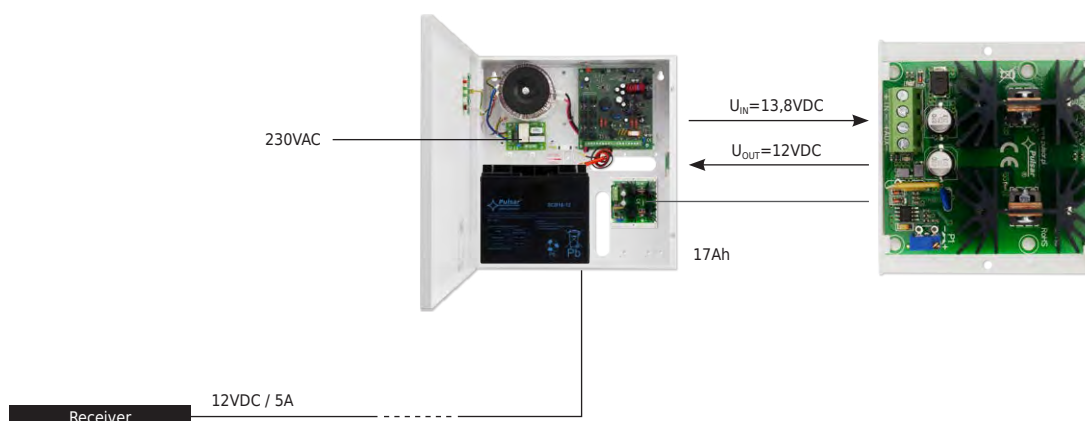
Sample product:
RN500



Code	Input voltage	Output voltage (adjustment)	Output current	Dimensions L×W×H [± 2mm]
RN500	13,8VDC (12÷14VDC)	12V (11V÷ U_{IN})	5,0A	76×70×45
RN25024	27,6VDC (24÷28VDC)	24V (22V÷ U_{IN})	2,5A	76×70×45



Sample product: RN500



Receiver e.g.



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



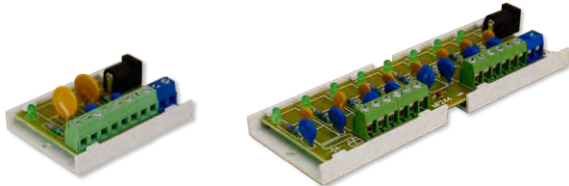
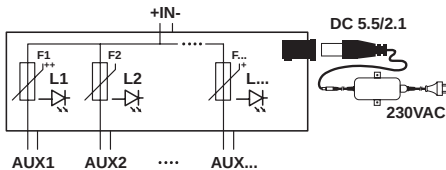
Intercom



Video intercom

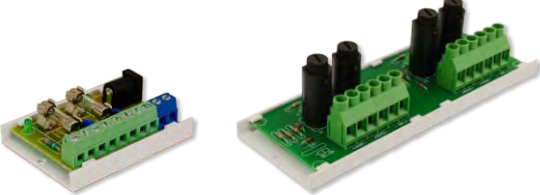
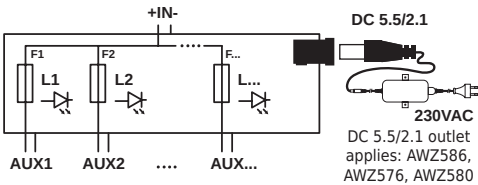
Fuse modules

Distribution – PTC

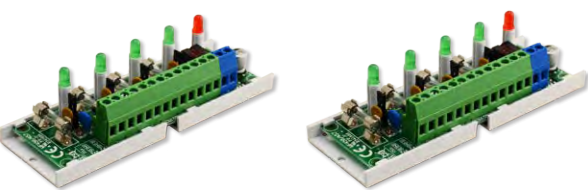
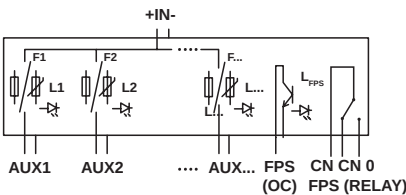



Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Fuse PTC (polymer)	DC 5.5/2.1 outlet	Dimensions LxWxH [+/- 2mm]	
AWZ574	10÷30VDC	2 / 4	1mm²	4x0,5A	✓	✓	80x43x21	
AWZ575				4x1,0A	✓	✓		
AWZ577		2 / 8		8x0,3A	✓	✓	124x43x21	
AWZ578				8x0,5A	✓	✓		
AWZ579				8x1,0A	✓	✓		

Distribution – glass fuse

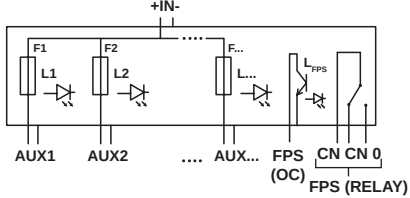
							
Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Glass fuse	DC 5.5/2.1 outlet	Dimensions L×W×H [± 2mm]
AWZ586	10÷30VDC	2 / 2	1mm ²	2×1,0A	✓	✓	60×43×20
AWZ576		2 / 4		4×0,5A	✓	✓	80×43×20
AWZ580		2 / 8		8×0,5A	✓	✓	124×43×20
AWZ597	10÷30VDC 10÷24VAC	1 / 2	2,5mm ²	2×2,0A	✓	—	60×43×26
AWZ589	10÷30VDC	1 / 4		4×2,0A	✓	—	80×43×27
AWZ598	10÷30VDC 10÷24VAC	2 / 8		8×1,5A	✓	—	144×43×26

Distribution modules with technical outputs of failure – glass fuse / PTC (jumper selectable fuse type)

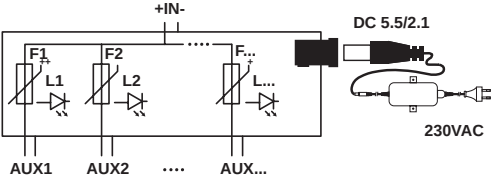
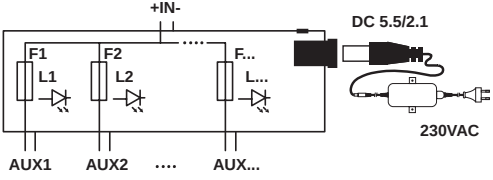
							
Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Fuse PTC (polymer) / glass fuse	Technical outputs	Dimensions L×W×H [± 2mm]
AWZ536	10÷30VDC 10÷24VAC	1 / 5	2,5mm ²	5×0,5A	✓ / ✓	OC type	150×43×30
AWZ588		1 / 4		4×0,5A	✓ / ✓	OC type, RELAY	125×43×32

Fuse modules

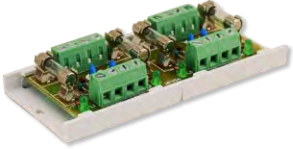
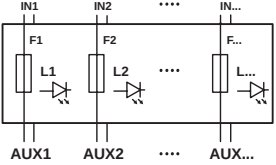
Modules with technical outputs of failure – glass fuse

 							
Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Glass fuse	Technical outputs	Dimensions L×W×H [± 2mm]
AWZ595	10÷30VDC 10÷24VAC	1 / 4	2,5mm ²	4×2,0A	✓	OC type, RELAY	120×43×26
AWZ596			4mm ²	4×5,0A	✓		150×53×40

Modules in plastic enclosures glass fuse / PTC / without fuse

  							
Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Fuse		Dimensions W×H×D [± 2mm] W ₁ ×H ₁ [± 2mm]
					PTC polymer	/ glass fuse	
AWZ594	10÷30VDC	2 / 5	2mm ²	5×1,0A	✓	/ —	150×94×42 126×78
AWZ592		2 / 8		8×1,0A	✓	/ —	
AWZ593		2 / 5		5×1,0A	—	/ ✓	
AWZ591		2 / 8		8×1,0A	—	/ ✓	

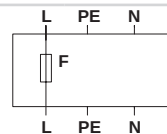
Straight-through – glass fuse (galvanic separation of each output)

 						
Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Glass fuse	Dimensions L×W×H [± 2mm]
AWZ533	10÷30VDC 10÷24VAC	4 / 4	1mm ²	2×1,5A	✓	100×43×20

Fuse modules, security modules

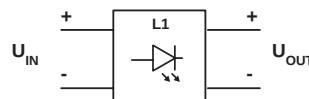
Relay modules

Straight-through, 230VAC – glass fuse



Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Glass fuse	Dimensions L×W×H [+/- 2mm]
AWZ618	230VAC	1 / 1	2,5mm ²	1×T 3,15A	✓	60×43×40

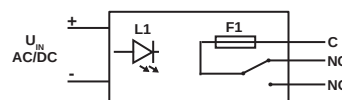
Protection modules



Code	U _{IN} power input	U _{OUT} power supply output	Output current (max)	Cable cross section (max)	Protection types	Technical outputs	Dimensions L×W×H [+/- 2mm]
AWZ540	9÷40VDC	9÷14,1VDC	4A	1mm ²	overvoltage protection - OVP	—	50×43×26

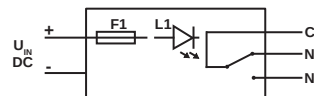
Relay modules

AC/DC power, fuse in C/NC/NO relay circuit



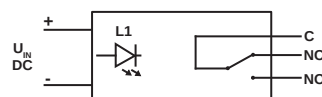
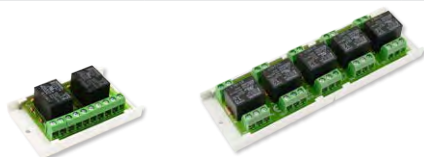
Code	Supply voltage	Number of relays	Maximum connection voltage	Maximum connection current	Dimensions L×W×H [+/- 2mm]
AWZ510	10÷16VDC / 10÷13VAC	1	30VDC / 50VAC	1A	50×43×20
AWZ512		2			80×43×20
AWZ514	10÷16VDC / 10÷16VAC	1			70×43×23
AWZ517	20÷32VDC / 20÷32VAC	1	30VDC / 250VAC	6A	75×70×30
AWZ625	10÷16VDC / 10÷16VAC	2			75×70×30
AWZ626		4			150×70×30

DC power, fuse in coil circuit



Code	Supply voltage	Number of relays	Maximum connection voltage	Maximum connection current	Dimensions L×W×H [+/- 2mm]
AWZ511	10÷14VDC	1 (2 x C/NO/NC)	30VDC / 50VAC	2A	70×43×20
AWZ513					
AWZ515		4			75×70×20

DC power, without fuse



Code	Supply voltage	Number of relays	Maximum connection voltage	Maximum connection current	Dimensions L×W×H [+/- 2mm]
AWZ529	10÷14VDC	2	30VDC / 50VAC	2A	70×43×22
AWZ528		3		1A	70×43×20
AWZ520		5		2A	140×43×25
AWZ612		1		1A	40×43×20
AWZ622		1		1A	30×27×18
AWZ624	20÷28VDC	2	30VDC / 50VAC	2A	70×43×22

Relay modules

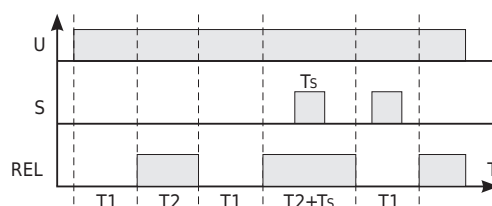
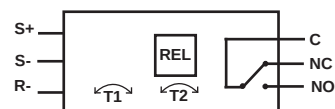
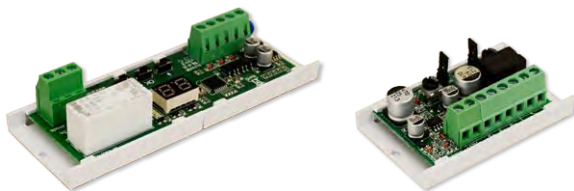
Time relay modules

DC power, without fuse – control inputs: T -, T +



Code	Supply voltage	Control inputs	Number of relays	Maximum connection voltage	Maximum connection current	Dimensions L×W×H [± 2mm]
AWZ508	10÷15VDC 21÷28VDC (jumper selectable – Z1)	T-, T+	2	30VDC / 50VAC	2A	80×43×22
AWZ610	10÷14VDC	T-, T+	1			50×43×22
AWZ611		T1-, T2-, T3-, T4-	4			120×43×22

Time relay modules, DC power, without fuse



Code	Supply voltage	Control inputs	Number of relays	Maximum connection voltage	Maximum connection current	Time range	Dimensions L×W×H [+/- 2mm]
AWZ516	10÷16VDC	S+, S-, R-	1	30VDC / 250VAC	10A	0,1s ÷ 100h (18 different time-logic functions)	120×43×22
AWZ518	10÷15VDC	—	n/a – 2 technical outputs OC type 50mA			4s / 1min / 16min / 4h 15min	60×43×23
AWZ525	10÷14VDC	S+, S-	1	30VDC / 50VAC	1A	1s ÷ 5min	
AWZ526		S+, S-, R-					70×43×23



AWO466



AWO467

Panic alarm button PN series

AWZ700 – foot-operated panic button PN

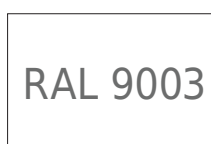
- ALARM output: C/NC/NO – 1A@30VDC / 50VAC max
- TAMPER output: C/NC/NO – 1A@30VDC / 50VAC max
- operating conditions II environmental class, -10°C÷40°C
- enclosure: metallic DC01; 0,7mm, RAL 9003, IP20
- connectors: $\Phi 0,41 \div 1,63$ (AWG 26-14)
- warranty: 2 years from production date



Cable entry

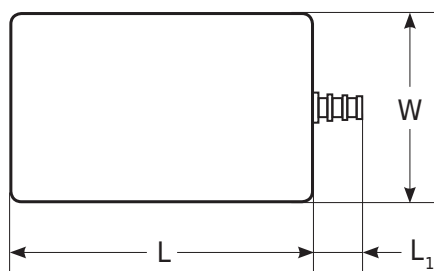
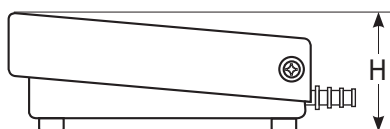


Distance



Metal enclosure
colour: RAL 9003

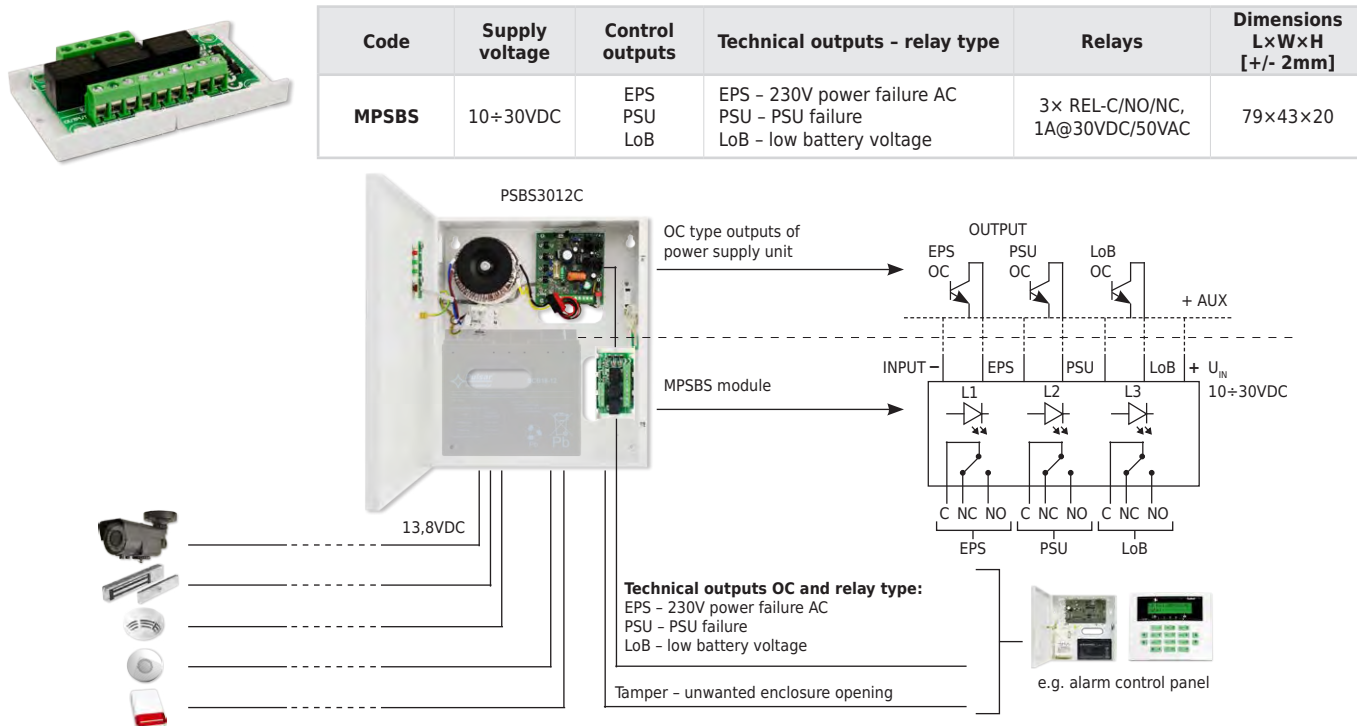
Code	ALARM output	TAMPER output	RST (RESET) input	Dimensions L×W×H [± 2mm] L ₁ [± 2mm]
AWZ700	C/NC/NO	C/NC/NO	—	106×66×36 18



Relay/automation modules

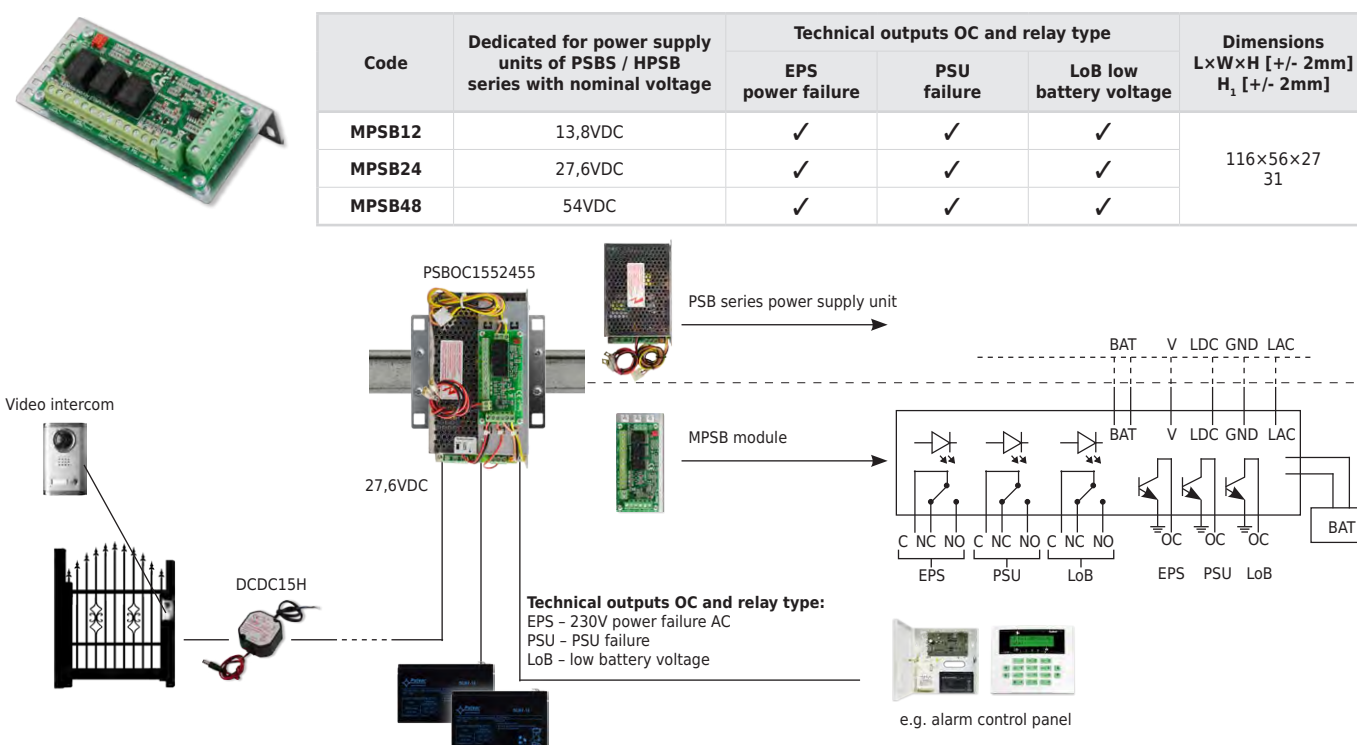
Module of technical relay outputs

MPSBS relay module is used for changing technical outputs (OC type) into technical outputs of relay type (C/NO/NC)
Dedicated for power supplies of: PSBS / PSBSH / MSRK / AWZ plus.



Operating automation module

MPSB automation module is used to indicate operating status of buffer power supply units of PSB / HPSB series.
Module detects and indicates power supply failures, power failures, and low battery voltage.
Each of technical outputs: OC and relay type (C/NO/NC).



Enclosures for alarm control panels

fitted with transformer of TRP series

Universal

Dedicated for control panels DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...



Code	Trans-former	Power supply output	Fitting battery	External dimen-sions of enclosure: W×H×D+D ₁ [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]
AWO000	TRP 20VA	16V/1,2A or 18V/1,0A	7Ah/12V	250×250×80+8	255×255
AWO009			7Ah/12V		
AWO150	TRP 40VA	16V/2,2A or 18V/2,0A	7Ah/12V	280×290×80+8	285×295
AWO220			17Ah/12V	320×305×90+8	325×310
AWO200			17Ah/12V	320×400×90+8	325×405
AWO250	TRP 50VA	16V/3,0A or 18V/2,8A or 20V/2,5A	17Ah/12V	320×400×120+8	325×405
AWO300	TRP 80VA	16V/5,0A or 18V/4,5A or 20V/4,0A	17Ah/12V		
AWO301			24Ah/12V	350×400×170+8	355×405

SATEL

Dedicated for control panels SATEL.



Code	Trans-former	Power supply output	Fitting battery	External dimen-sions of enclosure: W×H×D+D ₁ [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]
AWO005	TRP 20VA	16V/1,2A or 18V/1,0A	7Ah/12V	250×250×80+8	255×255
AWO006			7Ah/12V		
AWO205	TRP 40VA	16V/2,2A or 18V/2,0A	17Ah/12V	320×305×90+8	325×310
AWO256	TRP 50VA	16V/3,0 or 18V/2,8A or 20V/2,5A	17Ah/12V	320×400×90+8	325×405
AWO261	TRP 80VA	16V/5,0 or 18V/4,5A or 20V/4,0A	28Ah/12V	425×450×145+8	430×455

PARADOX

Dedicated for control panels PARADOX.



Code	Trans-former	Power supply output	Fitting battery	External dimen-sions of enclosure: W×H×D+D ₁ [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]
AWO003	TRP 20VA	16V/1,2A or 18V/1,0A	7Ah/12V	250×250×80+8	255×255
AWO008			7Ah/12V		
AWO152	TRP 40VA	16V/2,2A or 18V/2,0A	7Ah/12V	280×290×80+8	285×295
AWO232			17Ah/12V	320×305×90+8	325×310
AWO214			17Ah/12V	320×400×90+8	325×405

RISCO

Dedicated for control panels RISCO.



Code	Trans-former	Power supply output	Fitting battery	External dimen-sions of enclosure: W×H×D+D ₁ [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]
AWO203	TRP 40VA	16V/2,2A or 18V/2,0A	17Ah/12V	350×400×90+8	355×405

BOSCH

Dedicated for control panels BOSCH.



Code	Trans-former	Power supply output	Fitting battery	External dimen-sions of enclosure: W×H×D+D ₁ [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]
AWO512	TRP 40VA	16V/2,2A or 18V/2,0A	7Ah/12V	280×320×100+8	285×325
AWO518	TRP 80VA	16V/5,0 or 18V/4,5A or 20V/4,0A	17Ah/12V	348×468×100+8	353×473
AWO519			2×17Ah/12V	510×468×100+8	515×473

Enclosures for alarm control panels construction compliant with EN50131, GRADE 3 version

fitted with transformer of TRP / TRZ / EI series *

Universal

Dedicated for control panels DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...



Code	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: W×H×D (D ₁) [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO221	TRP 40VA	16V/2,2A or 18V/2,0A	17Ah/12V	340×300×110 (15)	335×310

SATEL

Dedicated for control panels SATEL.



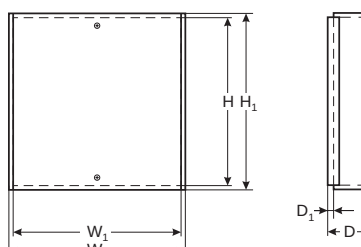
Code	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: W×H×D (D ₁) [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO004	TRZ 20VA	16V/1,2A or 18V/1,0A	7Ah/12V	290×280×105 (15)	285×285
AWO213	TRZ 40VA	16V/2,2A or 18V/2,0A	17Ah/12V	330×305×110 (15)	325×310
AWO257	TRZ 50VA	16V/3,0A or 18V/2,8A or 20V/2,5A	17Ah/12V	340×400×110 (15)	335×405
AWO270	EIZ 75VA	20V/3,75A	17Ah/12V		
AWO306	TRP 80VA	16V/5,0A or 18V/4,5A or 20V/4,0A	28Ah/12V	460×550×175 (20)	455×555

PARADOX

Dedicated for control panels PARADOX.



Code	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: W×H×D (D ₁) [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO268	TRP 40VA	16V/2,2A or 18V/2,0A	17Ah/12V	340×400×130 (15)	335×405
AWO278	TRP 80VA	16V/5,0A or 18V/4,5A or 20V/4,0A	17Ah/12V		



* depending on model

Enclosures for alarm control panels

Universal - two-level version

fitted with transformer of TRP series

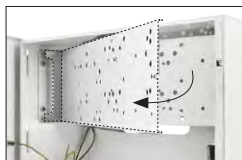
Dedicated for control panels

DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...

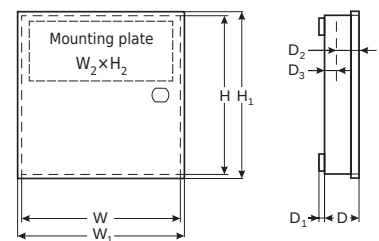
Communication modules

GORKE - ATG; **ROPAM** - BASIC, MULTI GSM; **SATEL** - ETHM, GSM LT1, LT2, GPRS-T1/T2/T4

Two-level security metal enclosures for alarm control panels are designed for mounting motherboard of alarm control panel and input/output security and expansion modules, etc. First level is dedicated for installation of control panels, while second one for communication modules. In addition, installation of expansion modules is also possible. Enclosures are fitted with transformer of TRP series in PC / ABS plastic enclosure - IP30.



2nd level - hinged mounting plate



Code	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]	Mounting plate dimensions: $W_2 \times H_2$ [+/- 2mm]	Working depth: D_2 / D_3 [+/- 2mm]
AWO200K	TRP 50VA	16V/3,0A or 18V/2,8A or 20V/2,5A	17Ah/12V	350×435×140+8	355×440	310×135	62/75

Enclosures for alarm control panels

RISCO

with power supply LRS

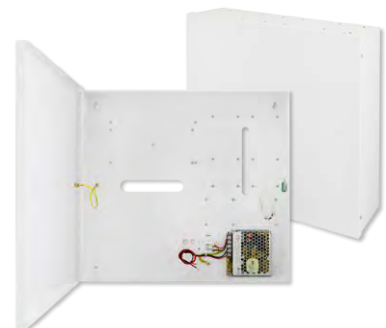
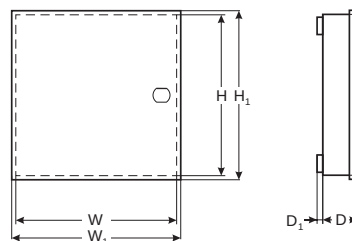
Dedicated for control panels

RISCO

AWO317 metal enclosure is designed as component (supplying) in intruders alarms, security RISCO systems.

It is intended for installation:

- control panel boards
- optional additional modules



Code	Power supply	Power supply output	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO317	LRS-75-15	14,4VDC/5A	17Ah/12V	430×400×90+8	435×405

Empty enclosures for alarm control panels

without transformer

Universal

Dedicated for control panels: DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...



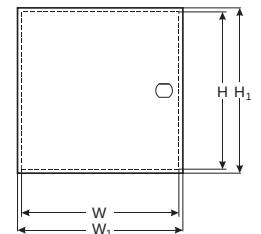
Code	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO000PU	7Ah/12V	250×250×80+8	255×255
AWO150PU	7Ah/12V	280×290×80+8	285×295
AWO220PU	17Ah/12V	320×305×90+8	325×310
AWO200PU	17Ah/12V	320×400×90+8	325×405
AWO250PU	17Ah/12V	320×400×120+8	325×405
AWO301PU	24Ah/12V	350×400×170+8	355×405

SATEL

Dedicated for control panels: SATEL.



Code	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO005PU	7Ah/12V	250×250×80+8	255×255
AWO205PU	17Ah/12V	320×305×90+8	325×310
AWO256PU	17Ah/12V	320×400×90+8	325×405



PARADOX

Dedicated for control panels: PARADOX.



Code	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO003PU	7Ah/12V	250×250×80+8	255×255
AWO152PU	7Ah/12V	280×290×80+8	285×295
AWO232PU	17Ah/12V	320×305×90+8	325×310
AWO214PU	17Ah/12V	320×400×90+8	325×405



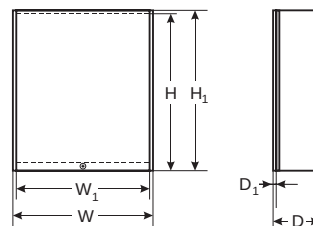
Empty enclosure for alarm control panels SATEL - GRADE 3 version

without transformer

Dedicated for control panels SATEL.

Security metal enclosure for alarm control panels is designed for mounting motherboard of alarm control panel and input/output expansion modules, security modules, relays, etc. Enclosure in empty version is without transformer - this enclosure has pre-embossed openings for transformer of TRP, TRZ and EI series. Enclosure compliant with EN50131 (GRADE 3) is used in alarm systems in accordance with EN50131.

**Compliant
with EN50131
GRADE 3**



Code	Fitting battery	External dimensions of enclosure: $W \times H \times D (D_1)$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO269PU	17Ah/12V	325×400×100 (15)	323×405



Accessories:



AWO269S

Empty enclosure for alarm control panels

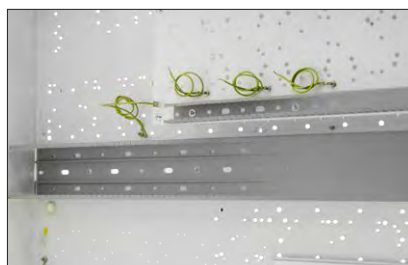
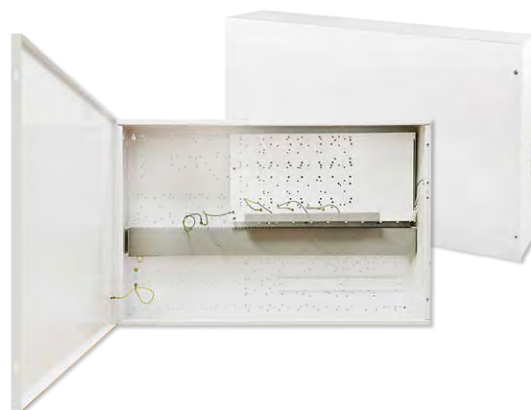
Universal - INTEGRATOR

without transformer

Dedicated for control panels

DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...

Security metal enclosure for alarm control panels is designed for mounting motherboard of alarm control panel and input/output expansion modules, security modules, relays, etc. Enclosure in empty version is without transformer – this enclosure has pre-embossed openings for transformer of TRP, TRZ and EI eries. Enclosure is fitted with tamper switch indicating unwanted removal enclosure from wall, hinged mounting plate and perforated strip.



Tamper indicating enclosure opening - 1 piece



Tamper - enclosure detachment, in plastic cover - 1 piece



Closing - front mounting - 2 pieces



Embossing for a lock (MR008 / MR027)

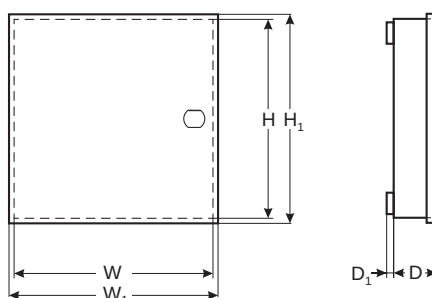


Removable hinges



Distance from wall plastic - 8mm

Code	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [± 2mm]	External dimensions of front panel: $W_1 \times H_1$ [± 2mm]
AWO305	17Ah/12V	835×550×170+8	840×555



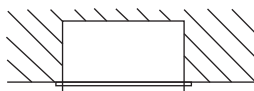
Flush-mounted enclosures for alarm control panels

Universal - standard version

fitted with transformer of TRZ series

Dedicated for control panels

DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...



Security metal enclosures for alarm control panels are designed for mounting motherboard of alarm control panel and input/output expansion modules, security modules, relays, etc. Designed for flush mounting. They are fitted with adjustable flange and removable doors locked with a key for esthetic installation. Enclosures are fitted with transformer of TRZ series in PC / ABS plastic enclosure, cast epoxy resin – IP43.



Sample product:
AWO520

Code	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of flange: $W_1 \times H_1$ [+/- 2mm]	Working depth: D_2 [+/- 2mm]
AWO500	TRZ 40VA	16V/2,2A or 18V/2,0A	17Ah/12V	310×305×100+8	345×340	80
AWO515	TRZ 50VA	16V/3A or 18V/2,8A or 20V/2,5A	17Ah/12V	350×400×100+8	385×430	
AWO520	TRZ 80VA	16V/5A or 18V/4,5A or 20V/4A	24Ah/12V	350×400×180+8	385×430	160

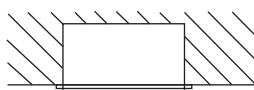
Empty, flush-mounted enclosures for alarm control panels

Universal

without transformer

Dedicated for control panels

DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...

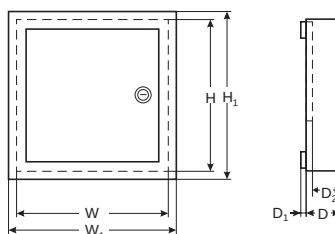


Security metal enclosures for alarm control panels are designed for mounting motherboard of alarm control panel and input/output expansion modules, security modules, relays, etc. Designed for flush mounting. They are fitted with adjustable flange and removable doors locked with key for esthetic installation. Enclosures in empty version are without transformer – these enclosures have pre-embossed openings for transformer of TRZ series.



Sample product:
AWO510PU

Code	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of flange: $W_1 \times H_1$ [+/- 2mm]	Working depth: D_2 [+/- 2mm]
AWO505PU	7Ah/12V	280×290×80	335×335	80
AWO500PU	17Ah/12V	310×305×100+8	345×340	
AWO510PU	17Ah/12V	350×400×100+8	385×430	



Enclosures for expanders

Universal

Dedicated for control panels DSC, SATEL, PARADOX, RISCO...



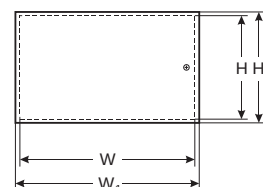
Code	Destination	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO452	DSC, SATEL, PARADOX, RISCO	218×150×50+8	222×155
AWO453		262×172×50+8	266×175

SATEL

Dedicated for control panels SATEL.



Code	Destination	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO224	SATEL	17Ah/12V	320×305×90+8	325×310



BOSCH

Dedicated for control panels BOSCH.



Code	Fitting battery	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO455	BOSCH	218×150×50+8	222×155



Enclosures for expanders

GRADE 3 version

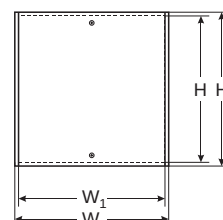
construction compliant with EN50131

Universal

Dedicated for control panels DSC, SATEL, PARADOX, RISCO...



Code	Destination	External dimensions of enclosure: $W \times H \times D$ (D_1) [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO454	DSC, SATEL, PARADOX, RISCO	297×203×67 (16)	292×207

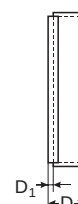


SATEL

Dedicated for control panels SATEL.



Code	Destination	Fitting battery	External dimensions of enclosure: $W \times H \times D$ (D_1) [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO229	SATEL	17Ah/12V	330×305×120 (15)	325×310



Enclosures for keypads Surface-mounted

Dedicated for keypads of control panels

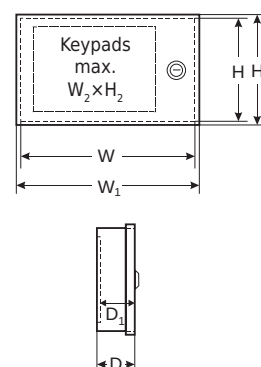
DSC, SATEL, PARADOX...

Security metal enclosures for keypads are designed for installation of keypads (drivers) for Intrusion Detection Systems, Access Control systems, etc. Their design provides protection against unauthorized access to keypads (drivers) in public utility buildings.



Sample product:
AWO353

Code	Destination	LED / LCD	Control window	External dimensions of enclosure: W×H×D [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]	Keypad mounting dimensions: W ₂ ×H ₂ ×D ₁ [± 2mm]
AWO350	DSC, FBII, SCANTRONIC, ROKONET, PARADOX, NAPCO, SUMMIT	LED	—	192×132×42	198×137	135×125×32
AWO352	SATEL	LED	—	211×110×42	218×115	155×105×32
AWO359	SATEL, PARADOX, PYRONIX	LED	—	140×135×42	147×140	85×130×32
AWO363	INTERLOGIX, SINTONY, CADDX NETWORKX, GALAXY, PARADOX	LED	—	169×190×50	177×195	110×185×41
AWO351	DSC, FBII, SCANTRONIC, ROKONET, PARADOX, NAPCO, SUMMIT, SATEL, CADDX NETWORKX	LCD	—	235×135×42	242×140	185×130×32
AWO353	SATEL, PARADOX, GALAXY, VISONIC, PYRONIX, CADDX NETWORKX, ROKONET, ELKRON, ADEMCO, PIMA	LCD	—	215×150×50	223×155	160×145×42
AWO360	SATEL, PARADOX, GALAXY, VISONIC, PYRONIX, CADDX NETWORKX, ROKONET, ELKRON, ADEMCO, PIMA, FBII	LCD	✓	215×149×50	223×158	



Enclosure for keypads Flush-mounted

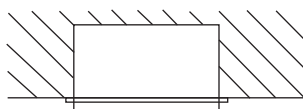
Dedicated for keypads of control panels

DSC, SATEL, PARADOX...

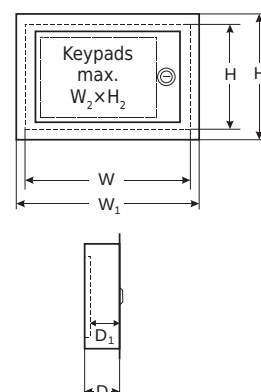
Security metal enclosure for keypads is designed for installation of keypads (drivers) for Intrusion Detection Systems, Access Control systems, etc. Its design provides protection against unauthorized access to keypads (drivers) in public utility buildings.



Sample product:
AWO356



Code	Destination	LED / LCD	External dimensions of enclosure: W×H×D [± 2mm]	External dimensions of flange: W ₁ ×H ₁ [± 2mm]	Keypad mounting dimensions: W ₂ ×H ₂ ×D ₁ [± 2mm]
AWO356	DSC, FBII, SCANTRONIC, ROKONET, PARADOX, NAPCO, SATEL, CADDX NETWORKX, GALAXY, VISONIC, PYRONIX, ELKRON, ADEMCO, PIMA, SUMMIT	LED	250×162×61	276×193	185×142×52



Enclosures for GSM transmitters

Dedicated for receivers

MESSER, EBS, PRONAL

Metal security enclosures for receivers are designed as supplementary elements for Intrusion Detection Systems, Access Control systems, etc. Dedicated for GSM transmitter mounting systems (event notification). Enclosures are fitted with transformer of EI series.



AWO040



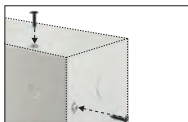
Pre-embossed opening for antenna



Transformer of EI series



Tamper indicating enclosure opening – 1 piece



Sheet metal screw closing – 4 pieces



Embossing for a lock (MR008 / MR027)

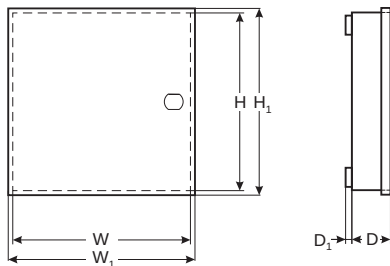


Distance from wall plastic – 8mm



Removable hinges

Code	Destination	Transformer	Power supply output	Fitting battery	External dimensions of enclosure: W×H×D+D ₁ [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]
AWO040	EBS / PRONAL	EI 20VA	14V/1,4A or 16V/1,2A or 18V/1,0A	7Ah / 12V	250×250×80+8	255×255



Enclosures for Access Control Systems

BOSCH

Dedicated for Access Control Systems

BOSCH

Enclosures are designed for mounting (depending on configuration):

- AMC (Access Modular Controller) of access control system on TH/TS35 (35mm) DIN rail
- power supply of PCB on TH/TS35 (35mm) DIN rail
- additional modules or other devices adapted for mounting on TH/TS35 (35mm) DIN rail
- battery 2×7Ah/12V

Industrial use

electrolytic galvanized steel sheet DC01, polyester paint – RAL 7035 (grey, structural)



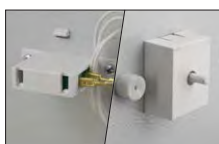
AWO513



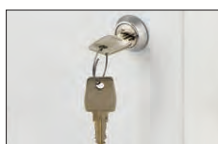
AWO514



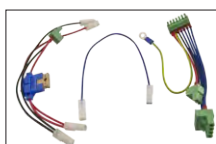
Tamper indicating enclosure opening – 1 piece



Tamper – enclosure detachment, in metal cover – 1 piece



Lock



Set of cables included

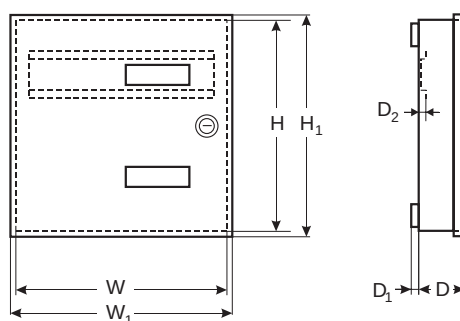


Control window



DIN rail, screwed down distance 18mm

Code	Number of DIN rails / length / number of „S” fields / D_2	Fitting battery	Control window	External dimensions of enclosure: $W \times H \times D + D_1$ [± 2mm]	External dimensions of front panel: $W_1 \times H_1$ [± 2mm]
AWO513	1 / 380mm / 21 / 18mm	2×7Ah / 12V	1	405×320×90+14	412×523
AWO514	2 / 380mm / 21 / 18mm		2	405×520×90+14	



Enclosure for VAS (Voice Alarm Systems)

Enclosure for loudspeaker line supervision system by BOSCH

Dedicated for VAS

BOSCH: LBB 4442/00, LBB 4441/00, LBB 4443/00, PVA-1WEOL, PLN 1EOL, LBC 1256/00

Enclosure is designed for mounting loudspeaker line supervision systems by BOSCH used in Voice Alarm Systems. Design of enclosure allows mounting Praesideo, Plena, and Paviro systems by BOSCH.

Enclosure is fitted with four cable glands allowing connecting loudspeaker wires with maximum diameter of 10mm.



AWO506



Closing – front mounting
– 2 pieces

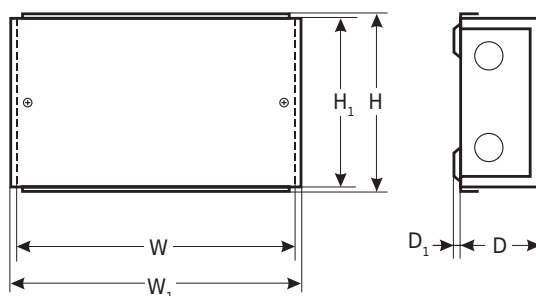


Rubber cable bushings



Mounting sleeves

Code	Destination	External dimensions of enclosure: $W \times H \times D + D_1$ [± 2mm]	External dimensions of front panel: $W_1 \times H_1$ [± 2mm]
AWO506	BOSCH: Praesideo, Paviro, Plena	150×112×31+3	153×108



Metal enclosures for batteries

Surface mounted, DIN rail mounted

Metal security enclosures for batteries are designed as supplementary elements for Intrusion Detection Systems, Access Control systems, etc.

Dedicated for surface mounting of maintenance-free lead-acid batteries of following capacities: 7Ah / 17Ah / 28Ah / 44Ah / 65Ah. In addition, when using PKAZ107, it is possible to mount enclosures on DIN rail (TH35).

These are enclosures for batteries of following capacities: 7Ah / 17Ah / 28Ah.



Sample product:
AWO401



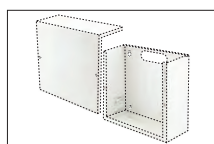
Tamper indicating enclosure opening - 1 piece



Closing - front mounting - 2 pieces

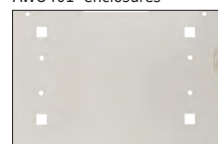


Distance from wall plastic 8mm possibility of disassembling



Removable front cover "KO-3"

Applies to AWO400 and AWO401 enclosures



Pre-embossed opening for PKAZ107



PKAZ107

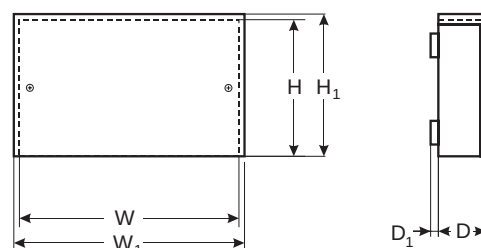


Code	Fitting battery					Surface mounted	DIN rail mounted (Required set: PKAZ107)	External dimensions of enclosure: $W \times H \times D + D_1$ [$\pm 2\text{mm}$]	External dimensions of front panel: $W_1 \times H_1$ [$\pm 2\text{mm}$]
	7Ah	17Ah	28Ah	44Ah	65Ah				
AWO400	1x	—	—	—	—	✓	✓	176×121×72+8	180×122
AWO401	1x	1x	—	—	—	✓	✓	205×191×82+8	210×192
AWO402	2x	2x	1x	1x	—	✓	—	230×200×175+8	234×203
AWO403	4x	4x	2x	1x	1x	✓	—	390×200×175+8	395×201

Accessories:



PKAZ107



Enclosures for power supply units

Pulsar: PS series

Mean Well: LRS, RS, RSP series

Enclosures AWO384, AWO385 are designed for power supply units of PS (Pulsar), RS and RSP series (Mean Well). They protect cables and power supply unit against direct access of unauthorized persons, while providing good ventilation.



Sample product:
AWO384



Closing - front
mounting - 1 piece



Removable hinges

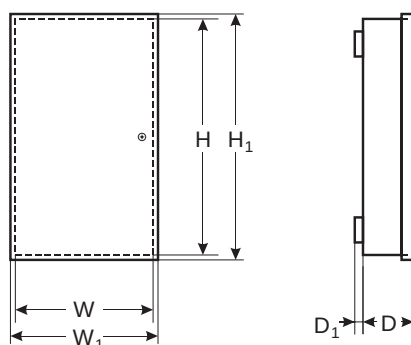


Distance from wall
plastic 8mm



Set includes screws
for power supply unit

Code	Space for power supply unit		External dimensions of enclosure: $W \times H \times D + D_1$ [± 2 mm]	External dimensions of front panel: $W_1 \times H_1$ [± 2 mm]
	Pulsar	Mean Well		
AWO384	PS15xxxx, PS25xxxx, PS40xxxx, PS60xxxx	LRS-35-xx, LRS-50-xx, LRS-75-xx, LRS-100-xx, LRS-150-xx RS-15-xx, RS-25-xx, RS-35-xx, RS-50-xx, RS-75-xx, RS100-xx	148x203x52+8	152x208
AWO385	PS15xxxx, PS25xxxx, PS40xxxx, PS60xxxx, PS100xxxx, PS150xxxx, PS200xxxx	LRS-35-xx, LRS-50-xx, LRS-75-xx, LRS-100-xx, LRS-150-xx RS-15-xx, RS-25-xx, RS-35-xx, RS-50-xx, RS-75-xx, RS100-xx, RS150-xx RSP-100-xx, RSP-150-xx, RSP-200-xx, RSP-320-xx, RSP-500-xx	176x276x62+8	180x280



Enclosures for CCTV recorders horizontal

Enclosure construction is compliant with requirements of General Data Protection Regulation (GDPR), as personal data must be protected and stored securely.

Enclosures protect recorder against unauthorized access or theft. Enclosures are made of 1mm thickness steel. Equipped with two locks (different code); two keys for each lock plus tamper switch indicating enclosure opening.

Due to vertical installation and low depth, they are ideal for places where enclosures of large dimensions, such as cabinets type RACK 19", cannot be installed.

After opening enclosures, an easy access to buttons on front panel of recorder is provided. Wiring in rear side of recorder can also be easily accessed. To do that, simply remove upper part of enclosure. They are possible to mount enclosures under tabletop using appropriate handles (available as accessory).



Sample product:
AWO447



Possibility to install ARAW45 fan



Fixing under tabletop



Closing lock, type 802 - various code - 2 pieces



Tamper indicating enclosure opening - 1 piece



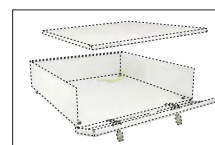
Legs length - 20mm



Removable hinges



Space for fan



Removable front cover "KO-5"

Code	Bracket	Possibility of mounting ARAW45	External dimensions of enclosure: $W \times H + H_3 \times D$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]	Dimensions of recorder space: $W_2 \times H_2 \times D_2$ [+/- 2mm]
AWO445	AWO445BR	✓	400×100+20×305	405×110	355×90×235
AWO447		✓	400×100+20×432		355×90×360
AWO483	AWO483BR	✓	500×100+20×405	505×110	455×90×335
AWO471	AWO471BR	✓	550×125+20×575	555×135	505×115×505

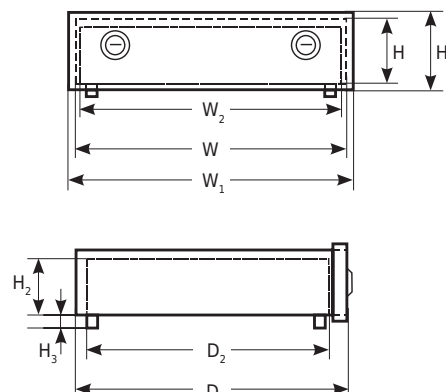
Accessories:



ARAW45
Fan with temperature sensor 45°C



AWO445BR – Bracket DVR/SMALL
AWO483BR – Bracket DVR/MEDIUM
AWO471BR – Bracket DVR/BIG



Enclosures for CCTV recorders vertical

Enclosure construction is compliant with requirements of General Data Protection Regulation (GDPR), as personal data must be protected and stored securely.

Enclosures protect recorder against unauthorized access or theft. Enclosures are made of 1mm thickness steel. Equipped with two locks (different code); two keys for each lock plus tamper switch indicating enclosure opening and unwanted removal of enclosure from wall.

Due to vertical installation and low depth, they are ideal for places where deeper enclosures or cabinets RACK 19" type cannot be installed. After opening enclosures, front cover are held in horizontal position, providing easy access to buttons on front panel of recorder.



Sample product:
AWO529 / AWO529W



Enclosure is fitted with straps for mounting recorder



Possibility to install ARAW45 fan



Closing lock, type 802 - various code - 2 pieces



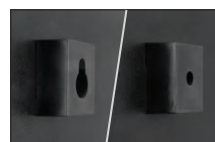
Tamper indicating enclosure opening - 1 piece



Tamper switch indicating unwanted removal of enclosure from wall - 1 piece



Hinges



Distance from wall plastic - 14mm



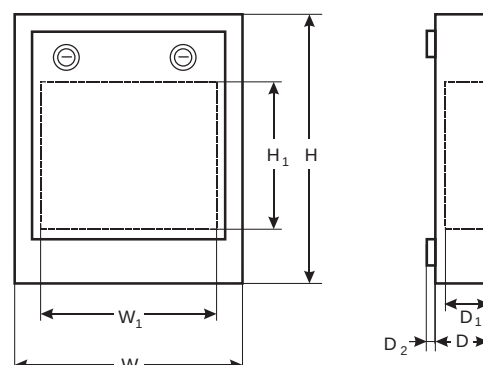
Opening limitation

Code	Colour	Possibility of mounting ARAW45	External dimensions of enclosure: $W \times H \times D + D_2$ [+/- 2mm]	Dimensions of recorder space: $W_1 \times H_1 \times D_1$ [+/- 2mm]
AWO528	RAL 9005 (black matt)	—	320×430×82+14	260×250×55
AWO528W	RAL 9003 (white)	—		
AWO529	RAL 9005 (black matt)	—	435×500×121+14	375×335×95
AWO529W	RAL 9003 (white)	—		
AWO530	RAL 9005 (black matt)	✓	535×650×121+14	470×485×95
AWO530W	RAL 9003 (white)	✓		

Accessories:



ARAW45
Fan with temperature sensor 45°C



Enclosures for CCTV recorders

Vertical - with monitor space

Enclosure construction is compliant with requirements of General Data Protection Regulation (GDPR), as personal data must be protected and stored securely.

Enclosure protects recorder/monitor/switch against unauthorized access or theft. Enclosures are made of 1,2mm thickness steel. Enclosure is equipped with two locks(different code) with two keys/each lock, hinged plate for monitor, RACK brackets, stripes for mounting recorder, tamper- opening enclosure, set of screws (RAS4 - 2pcs, M4x10 - 4 pcs).

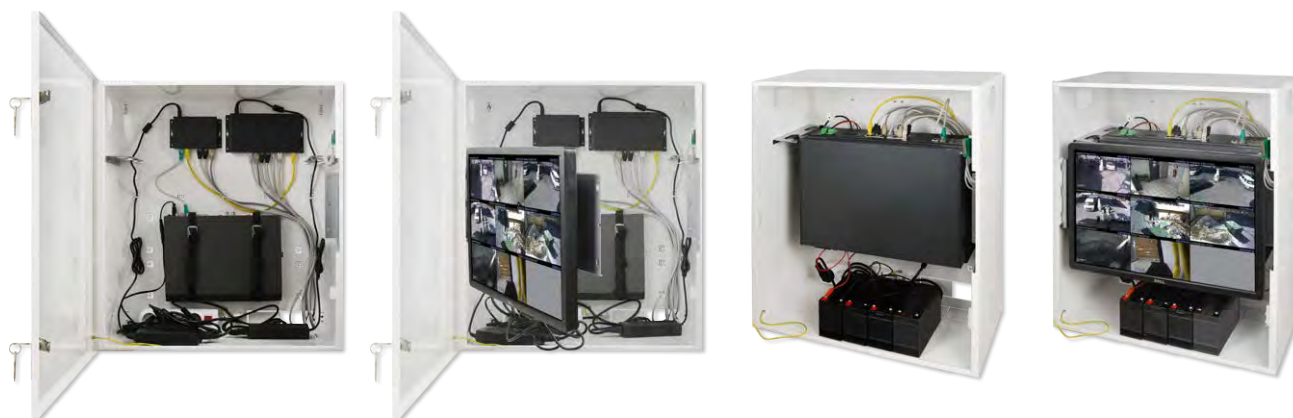
Possibility of install inside:

- switches of S... and SG series - back enclosure
- RACK switches of SF, RS, RSFUPS series - RACK 19" brackets
- patch panel - RACK 19" brackets
- recorder - back enclosure
- monitor (max 22") - hinged mounting plate
- batteries



AW0531W

Sample assembly:



Closing lock, type 802 - various code - 2 pieces



Tamper indicating enclosure opening



Profile RACK 19" - 4U - horizontal



Hinged mounting plate (monitor - max 22")



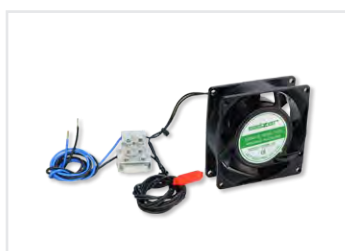
Enclosure is fitted with straps for mounting recorder



Distance from wall (plastic) - 14mm possibility of disassembling

Code	Colour	Possibility of mounting ARAW45	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	Dimensions of recorder space: W ₂ ×H ₂ ×D ₂ [± 2mm]
AW0531W	RAL 9003 (white)	✓	589×650×261+14	480×400×180

Accessories:



ARAW45

Fan with temperature sensor 45°C



ML572

Extension cord with switch and grounding 4 sockets

DIN/RACK metal enclosures

With DIN rails, mounting plates and RACK 19" profiles

Enclosures can be used as elements integrating installations of CCTV systems, Access Control Systems (ACS), Intrusion Detection Systems (IDS), LAN network, satellite TV, etc. In simplest model, it is possible to mount devices in DIN rail. Next model is fitted with hinged mounting plate for mounting electronic boards (control panels, access control panels). Top model is enhanced with RACK 19" profiles, which allow mounting of shallow devices with RACK 19" brackets.

Industrial use

electrolytically galvanized steel DC01, polyester paint – RAL 7035 (grey, structural)



AWO610



AWO620



AWO630

Applies to AWO610/620



Tamper indicating enclosure opening – 1 piece

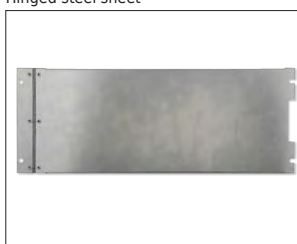


Closing – front mounting

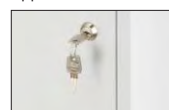


Embossing for lock (MR008 / MR027)

Applies to AWO620 / AWO630
Hinged steel sheet



Applies to AWO630



Lock



Removable hinges



Removable hinges



Distance from wall plastic 8mm possibility of disassembling



Mounting plate



Possible mounting of 35mm spacing rails to keep distance from wall



RACK 19" profiles – vertical / horizontal

Code	Mounting plate for transformer or power supply unit	Hinged mounting plate (second level)	RACK 19" profiles	Fitting battery	Number of DIN rails / length / number of „S" fields	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO610	✓	—	—	17Ah/12V	1 / 320mm / 18	350×360×92+8	358×365
AWO620	✓	✓ (300×195)	—	2×17Ah/12V	2 / 320mm / 18	350×510×165+8	358×515
AWO630	✓	✓ (415×170)	✓	65Ah/12V	3 / 480mm / 26	540×650×200+35	—

Accessories:



AWO620DIN

Rail for DIN2 315mm

AWO630DIN

Rail for DIN3 480mm



RAS4

Screw set RACK 4 pieces

Enclosures with DIN rails

Surface-mounted

Enclosure can be used as element integrating electrical installations, automation systems, CCTV, Access Control Systems (ACS), Intrusion Detection Systems (IDS), etc. Dedicated for devices mounted on DIN rail (TH35mm).

Industrial use

electrolytically galvanized steel DC01,
polyester paint - RAL 7035 (grey, structural)



Sample product:
AWO613



Tamper - unwanted
enclosure opening - 1 piece



Closing - front
mounting



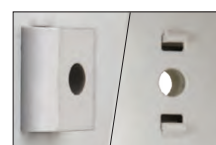
DIN rail, screwed down



Pre-embossed opening
for lock
(MR008, MR027)



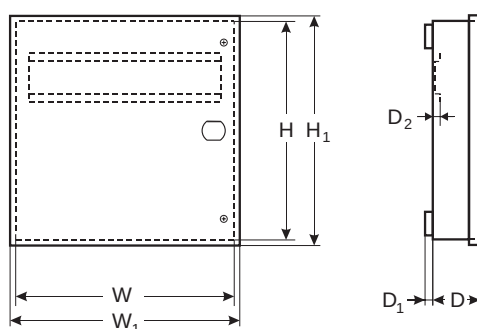
Removable hinges



Distance from wall
plastic - 8mm

Code	Number of DIN rails / length / number of „S” fields	Fitting battery	Destination	External dimensions of enclosure: W×H×D+D ₁ [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]
AWO611 *	1 / 130mm / 7	—	Standard + Mean Well	200×220×150+8	205×225
AWO612	2 / 330mm / 18	2×17Ah/12V	Standard + Mean Well	375×410×145+8	382×415
AWO613	3 / 330mm / 18	2×17Ah/12V	Standard + Mean Well	375×585×145+8	382×590
AWO622	2 / 330mm / 18	2×17Ah/12V	Standard	375×355×95+8	382×360

* finish: sheet metal DC01, RAL 9003 (white)



Teletechnical enclosures

Residential - surface mounted - TOM

Residential teletechnical enclosures allow integrate elements of computer network, telephone network, television network (TV, SAT), fiber-optic network and other telecommunication installations in public buildings and collective residential buildings.

Industrial use

electrolytically galvanized steel DC01, polyester paint RAL 9003 (white)



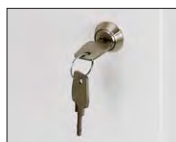
Sample product:
AWO805Z

Lock



Sample product:
AWO805C

Click



Key lock closing



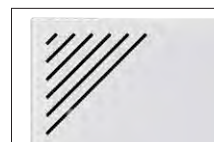
"Click" - type
closing



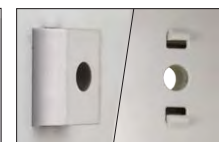
Mounting shelf



Mounting plate



Enclosure
ventilation



Distance from
wall (plastic) - 8mm

Code	Closing	Possibility of installing					External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]
		keystone connectors (eg. RJ45, BNC)	dual „F“ sockets (F-F connector)	simplex fiber optic adapter - SC	duplex fiber optic adapter - APC	equipment with standard of 45x45mm	
AWO804Z	Lock	9	8	2	1	1	245x295x80+8
AWO805Z	Lock	12	12	2	1	1	295x345x90+8
AWO805C	Click	12	12	2	1	1	295x345x90+8

Accessories:



GF-GF



GF-GF-K



RJ45/5U-K



SC/APC-1SM-K



SC/APC-1SM



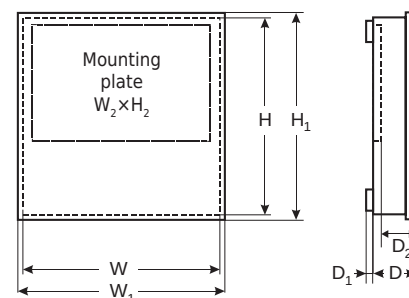
SC/APC-2SM



TB-2



PKAZ040



Teletechnical enclosures

Residential - flush mounted - TOM

Residential teletechnical enclosures allow integrate elements of computer network, telephone network, television network (TV, SAT), fiber-optic network and other telecommunication and electrical installations in public buildings and collective residential buildings.

Industrial use

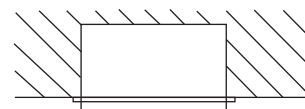
electrolytically galvanized steel DC01, polyester paint RAL 9003 (white)



Sample product:
AWO800RE



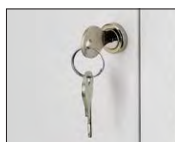
Sample product:
AWO802Z / AWO802C



Lock



Click



Key lock closing



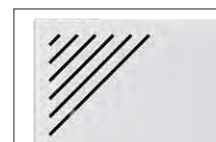
"Click" - type
closing



Mounting shelf



Mounting plate



Enclosure
ventilation

Code	Closing	Possibility of installing					Distribution board	External dimensions of enclosure: W×H×D [± 2mm]
		keystone connectors (eg. RJ45, BNC)	dual „F” sockets (F-F connector)	simplex fiber optic adapter - SC	duplex fiber optic adapter - APC	equipment with standard of 45×45mm		
AWO800RE *	Click	15	14	3	2	1	2×14 connectors	313×680×90
AWO801C	Click	9	8	2	1	1	—	245×295×80
AWO802C	Click	12	12	2	1	1	—	295×345×90
AWO801Z	Lock	9	8	2	1	1	—	245×295×80
AWO802Z	Lock	12	12	2	1	1	—	295×345×90

* available from: 1st 2020

Accessories:



GF-GF



GF-GF-K



RJ45/5U-K



SC/APC-1SM-K



SC/APC-1SM



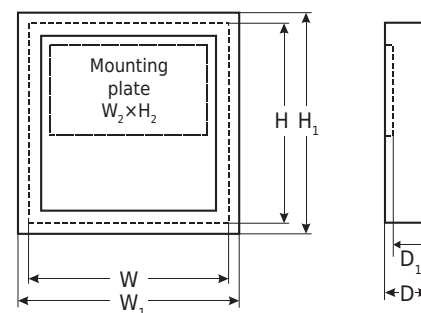
SC/APC-2SM



TB-2



PKAZ040



Teletechnical enclosures

Universal with plywood mounting - TUN

TUN enclosures can be used as element integrating TV / SAT installations, (multiswitch, amplifier, splitters and taps), CCTV, Access Control Systems (ACS), Intrusion Detection Systems (IDS), automation etc.

Industrial use

electrolytically galvanized steel DC01, polyester paint RAL 9003 (white)



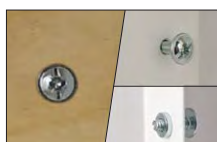
Sample product:
AWO654



Lock RAZB16
same code



Mounting plate
waterproof plywood



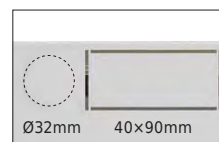
Removable back
mounting plate
4 pieces - M4x12



Door - left / right
Quick removable

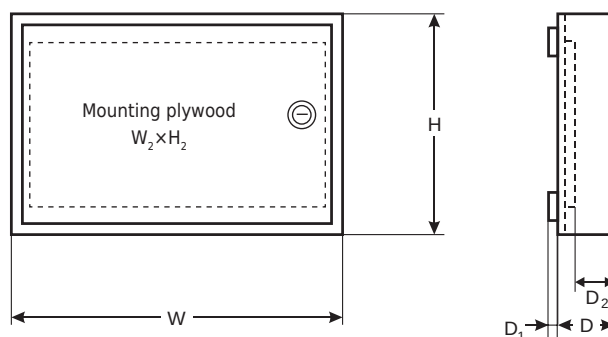


Distance from wall (plastic)
- 14mm possibility
of disassembling



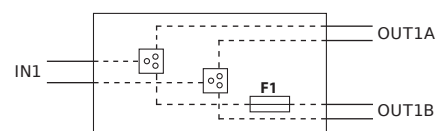
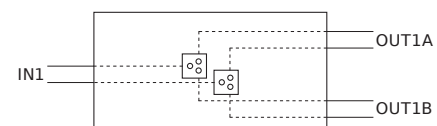
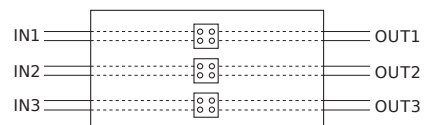
Knock-outs Top/Bottom
Ø32mm / 40x90mm
depend on model

Code	Pre-embossed opening, Top/Bottom	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	Assembly plywood dimensions: $W_1 \times H_1$ [+/- 2mm]	Working depth: D_2 [+/- 2mm]
AWO654	4 pieces - Ø32mm	480x360x140+14	410x260	120
AWO656	2 pieces - Ø32mm, 1 piece - 40x90mm	640x480x180+14	570x380	160

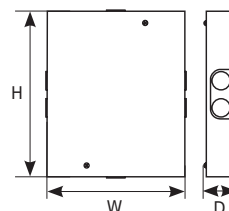
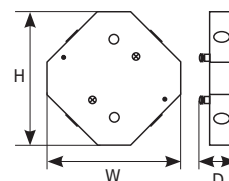
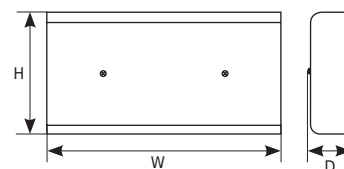




Pulsar
www.pulsar.pl
www.zasilacze.pl



**RAL
3001**



Enclosures with cable frame

Enclosures are used in ICT and telecommunication sectors. They are designed to store excessive fiber optic cable. Enclosures are compliant with requirements of ZN96/TPSA-009 standard.

Enclosures consist of two parts - cover and frame. Cross-shaped frame allows storing excessive cable while maintaining safe bending radius. Possibility of coiling of up to 120 meters of fiber optic cable, depending on its diameter.

Cover protects cable against mechanical damage.
Cover is mounted with single screw.



Sample product:
AWO644



Wall mounting - 4 screws



120 meter spare cable



Metal enclosure
(Cable protection)

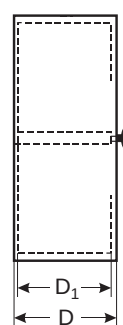
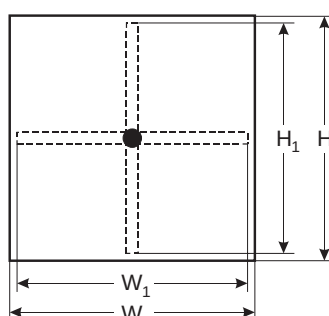


Cable outlet



Knob Ø40mm / M8x16

Code	External dimensions of enclosure: W×H×D [+/- 2mm]	Frame dimensions: W ₁ ×H ₁ ×D ₁ [+/- 2mm]
AWO644	400×400×105	395×395×90
AWO646	600×600×105	590×590×90



Fire safety instructions box

Enclosure is designed for storage of fire safety instructions. Enclosure design allows multiple opening without need for quick replacement because window is made of plastic instead of glass. This product can also be used as cabinet for other documentation, building plans, etc.



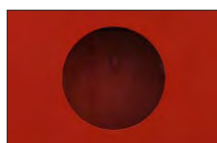
AWO676



Lock



Tamper indicating enclosure opening - 1 piece



Key window

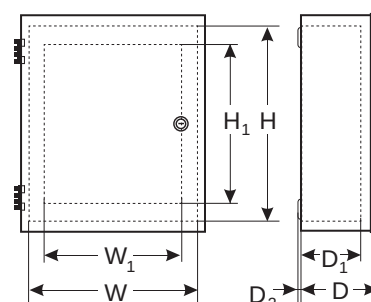


Porcelain screw connection in cabinet



Distance from wall - 5mm

Code	Application	Dimensions of storage space for documents: $W_1 \times H_1 \times D_1$ [± 2mm]	External dimensions of enclosure: $W \times H \times D$ [± 2mm]
AWO676	documents: • fire safety instructions • VAS documentation • building plans	285×330×100	310×365×130+5



Enclosure for evacuation door key

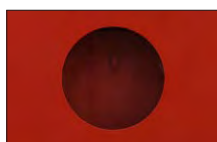
Enclosure is designed to store evacuation door key. Enclosure design allows multiple opening without need for quick replacement because window is made of plastic instead of glass.



Lock



Tamper indicating enclosure opening - 1 piece



Key window

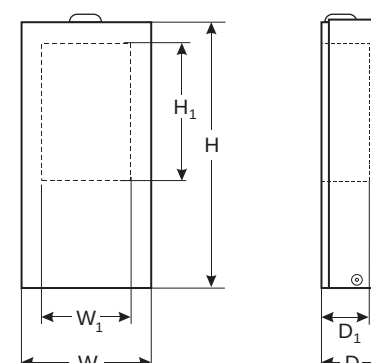


Porcelain screw connection in cabinet



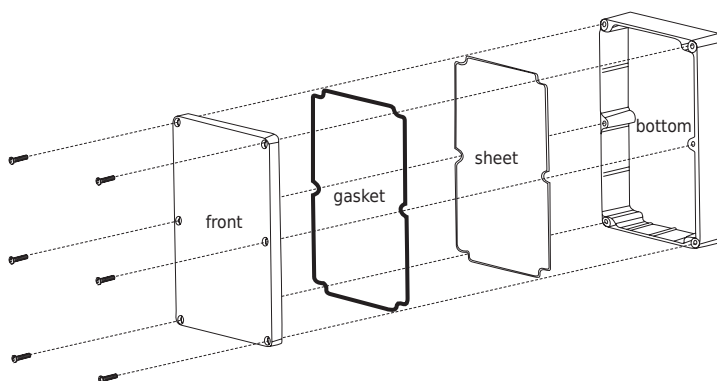
AWO675

Code	Application	Key space dimensions: $W_1 \times H_1 \times D_1$ [± 2mm]	External dimensions of enclosure: $W \times H \times D$ [± 2mm]
AWO675	evacuation door key	65×100×30	95×195×43



Plastic enclosures IP65 with mounting plate AWO series

For mounting devices that require IP65 protection class, with mounting plate.



Closing - front mounting
- 4/6 pieces



Gasket



Removable back
mounting plate

IP65

Hermetic enclosure IP65

ABS

Material: ABS

Code	External dimensions of enclosure: W×H×D [+/- 2mm]	Internal dimensions of enclosure: W ₁ ×H ₁ ×D ₁ [+/- 2mm]	Mounting dimensions of enclosure: W ₂ ×H ₂ [+/- 2mm]	Mounting plate dimensions: W ₃ ×H ₃ [+/- 2mm]
AWO603	160×160×90	123×152×77	145×125	150×110
AWO604	184×263×96	157×236×83	153×251	157×235

Accessories:



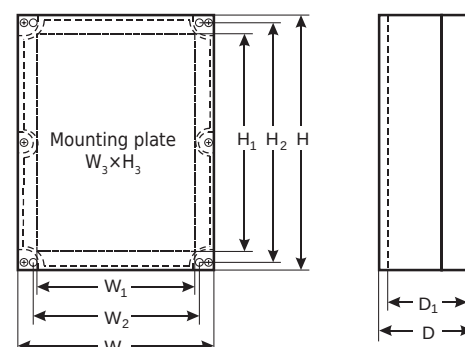
ML146
(M12×1.5)



ML147
(M16×1.5)



ML145
(M20×1.5)



Plastic enclosures IP65 without mounting plate AWP series

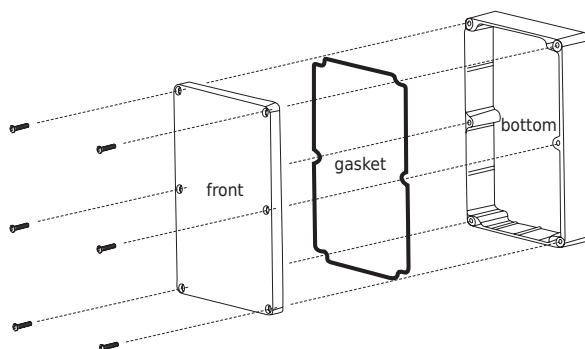
For mounting devices that require IP65 protection class.



AWP161609



AWP261809



Closing - front mounting
- 4/6 pieces



Gasket

IP65

Hermetic enclosure IP65

ABS

Material: ABS

Code	External dimensions of enclosure: $W \times H \times D$ [± 2 mm]	Internal dimensions of enclosure: $W_1 \times H_1 \times D_1$ [± 2 mm]	Mounting dimensions of enclosure: $W_2 \times H_2$ [± 2 mm]
AWP161609	160×160×90	152×122×80	126×145
AWP261809	185×265×95	158×237×85	152×252

Accessories:



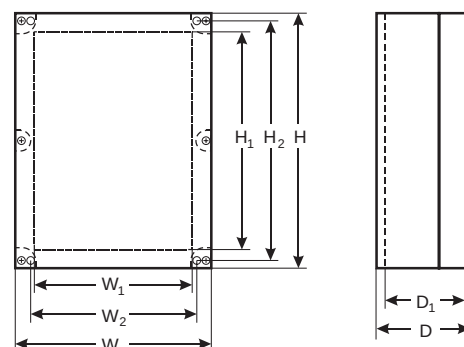
ML146
(M12×1.5)



ML147
(M16×1.5)



ML145
(M20×1.5)



RACK 19" cabinets - wall mounted, ready-to-assemble

RWA series

600×450 / 600×600

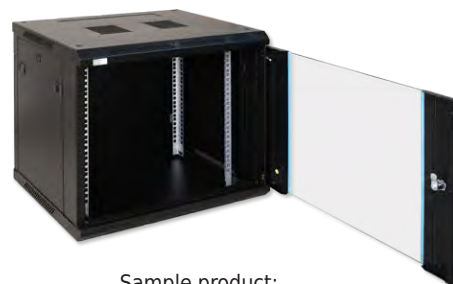
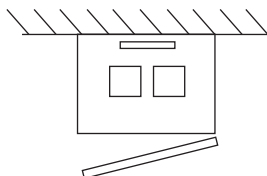
RACK 19"

RACK 19" cabinets enable integrating CCTV, AC, I&HAS, RTV, LAN, or other systems in small companies or households. They are intended for devices manufactured in enclosures of 19" standard. Due to RACK cabinets, devices are aesthetically mounted and protected against mechanical damage.

Help:

- Use CONFI-RACK®
Available on www.pulsar.pl

**CONFI®
RACK**



Sample product:
RWA964



Standard RACK 19"



Front door: 5mm toughened
glass + lock



Pre-embossed opening
RAZB16 side lock



Pre-embossed opening
340×56mm

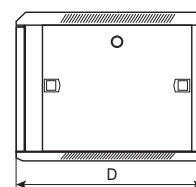
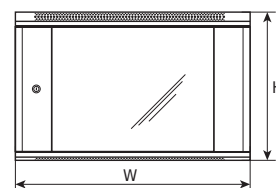


Ventilation

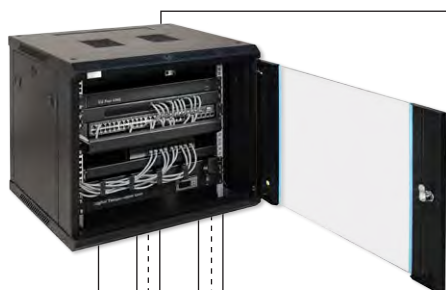


Ready-to-assemble

Code	Static load	Mounting dimensions W×H	External dimensions W×H×D [± 2mm]
600×450			
RWA664	70kg	19"×6U	600×372×450
RWA964	70kg	19"×9U	600×502×450
RWA1264	70kg	19"×12U	600×636×450
600×600			
RWA666	70kg	19"×6U	600×372×600
RWA966	70kg	19"×9U	600×502×600
RWA1266	70kg	19"×12U	600×636×600



Sample product: RWA964



Internet



Computer
network



Closed-circuit
television CCTV



Alarm
system

RACK 19" cabinets - wall mounted, fully assembled

RW series

600×450 / 600×600

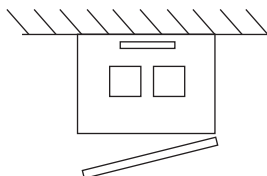
RACK 19"

RACK 19" cabinets enable integrating CCTV, AC, I&HAS, RTV, LAN, or other systems in small companies or households. They are intended for devices manufactured in enclosures of 19" standard. Due to RACK cabinets, devices are aesthetically mounted and protected against mechanical damage.

Help:

- Use CONFIRACK®
Available on www.pulsar.pl

CONFIRACK®



Sample product:
RW964



Standard RACK 19"



Front door: 5mm toughened
glass + lock



Pre-embossed opening
RAZB16 side lock



Pre-embossed opening
340×56mm

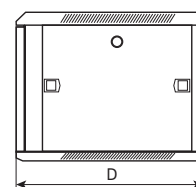
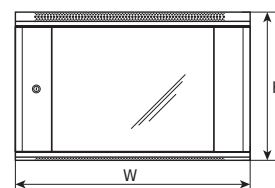


Ventilation

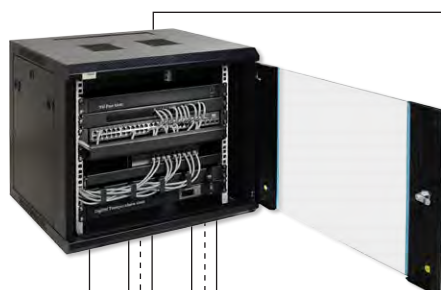


Fully assembled

Code	Static load	Mounting dimensions W×H	External dimensions W×H×D [+/- 2mm]
600×450			
RW664	70kg	19"×6U	600×368×450
RW964	70kg	19"×9U	600×503×450
RW1264	70kg	19"×12U	600×636×450
600×600			
RW666	70kg	19"×6U	600×368×600
RW966	70kg	19"×9U	600×503×600
RW1266	70kg	19"×12U	600×636×600
RW1566	70kg	19"×15U	600×770×600



Sample product: RW964



Internet



Computer
network



Closed-circuit
television CCTV



Alarm
system

RACK 19" cabinets - double section - fully assembled

RWD series

600×600

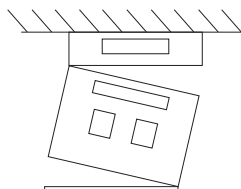
RACK 19"

RACK 19" cabinets enable integrating CCTV, AC, I&HAS, RTV, LAN, or other systems in small companies or households. They are intended for devices manufactured in enclosures of 19" standard. Due to RACK cabinets, devices are aesthetically mounted and protected against mechanical damage.

Help:

- Use CONFI-RACK®
Available on www.pulsar.pl

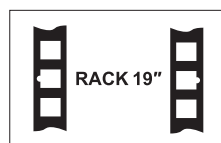
**CONFI®
RACK**



Two-section design



Sample product:
RWD1266



Standard RACK 19"



Front door: 5mm toughened
glass + lock



Possibility of mounting
RAZB16 side lock



Ventilation holes
/ end caps 273×60mm

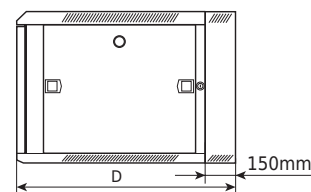
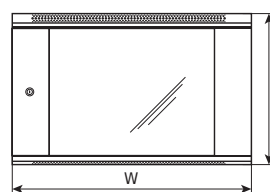


Ventilation

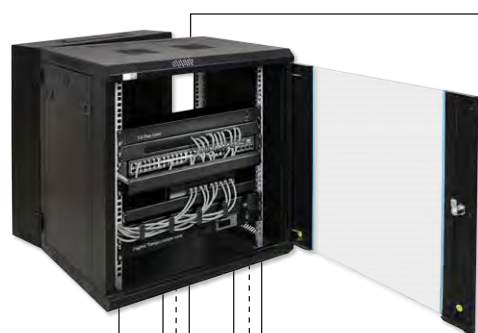


Fully assembled

Code	Static load	Mounting dimensions W×H	External dimensions W×H×D [+/- 2mm]
600×600			
RWD666	70kg	19"×6U	600×368×600
RWD966	70kg	19"×9U	600×501×600
RWD1266	70kg	19"×12U	600×635×600



Sample product: RWD1266



Internet



Computer
network



Closed-circuit
television CCTV



Alarm
system

RACK 19" cabinets - floor standing, ready-to-assemble

RS series

600×600 / 600×800 / 600×1000 / 800×800 / 800×1000

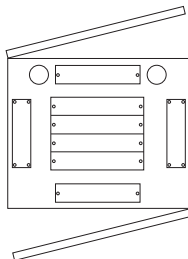
RACK 19"

RACK 19" cabinets enable integrating CCTV, AC, I&HAS, RTV, LAN, or other systems in medium and big companies. They are intended for devices manufactured in enclosures of 19" standard. Due to RACK cabinets, devices are aesthetically mounted and protected against mechanical damage.

Help:

- Use CONFIRACK®
Available on www.pulsar.pl

CONFIRACK®



Sample product:
RS2768



Standard RACK 19"



Front door: 5mm toughened glass + lock RAZ-S



Rear door full sheet + lock RAZ25



Possibility of mounting RAZB16 side lock

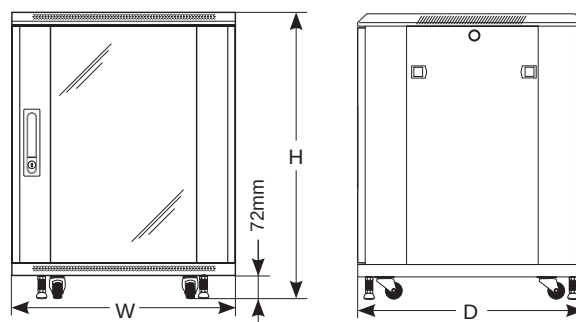


Ventilation holes / End caps



Ready-to-assemble

Code	Static load	Mounting dimensions W×H	External dimensions W×H×D [± 2mm]
600×600			
RS1566	1000kg	19"×15U	600×855×600
RS2266	1000kg	19"×22U	600×1166×600
RS4266	1000kg	19"×42U	600×2055×600
600×800			
RS2768	1000kg	19"×27U	600×1388×800
RS4268	1000kg	19"×42U	600×2055×800
600×1000			
RS2761	1000kg	19"×27U	600×1388×1000
RS4261	1000kg	19"×42U	600×2055×1000
800×800 - server			
RS4288	1000kg	19"×42U	800×2055×800
800×1000 - server			
RS4281	1000kg	19"×42U	800×2055×1000



Sample product: RS2768



Internet



Computer network



Closed-circuit television CCTV



Alarm system

RACK 19" cabinets - floor standing, fully assembled

ZRS series

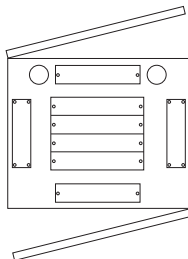
600×600 / 600×800 / 600×1000

RACK 19" cabinets enable integrating CCTV, AC, I&HAS, RTV, LAN, or other systems in medium and big companies. They are intended for devices manufactured in enclosures of 19" standard. Due to RACK cabinets, devices are aesthetically mounted and protected against mechanical damage.

Help:

- Use CONFIRACK®
Available on www.pulsar.pl

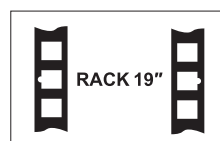
CONFIRACK®



RACK 19"



Sample product:
ZRS2768



Standard RACK 19"



Front door: 5mm toughened glass + lock RAZ-S



Rear door full sheet + lock RAZ25



Possibility of mounting RAZB16 side lock

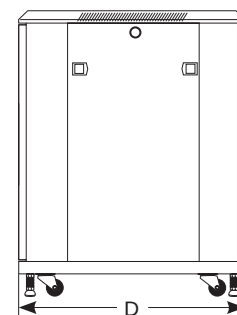
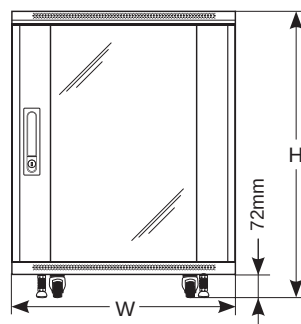


Ventilation holes / End caps

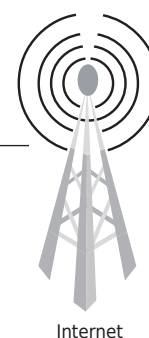


Fully assembled

Code	Static load	Mounting dimensions W×H	External dimensions W×H×D [+/- 2mm]
600×600			
ZRS1566	1000kg	19"×15U	600×855×600
ZRS2266	1000kg	19"×22U	600×1166×600
ZRS4266	1000kg	19"×42U	600×2055×600
600×800			
ZRS2768	1000kg	19"×27U	600×1388×800
ZRS4268	1000kg	19"×42U	600×2055×800
600×1000			
ZRS2761	1000kg	19"×27U	600×1388×1000
ZRS4261	1000kg	19"×42U	600×2055×1000



Sample product: ZRS2768



Internet



Computer network



Closed-circuit television CCTV



Alarm system

Accessories for RACK 19" cabinets

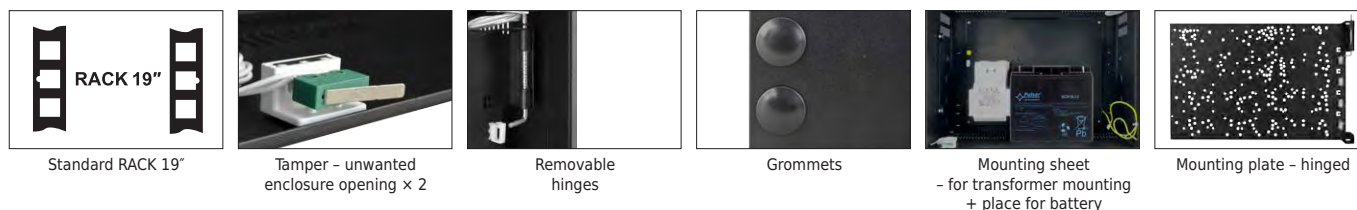
Enclosure for alarm control panel - vertical

RACK 19"

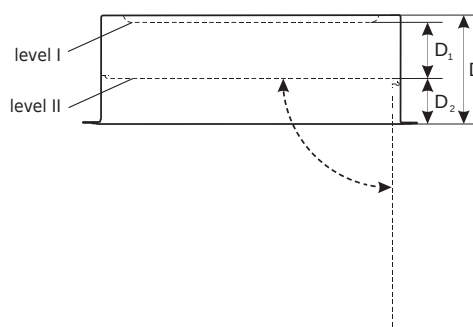
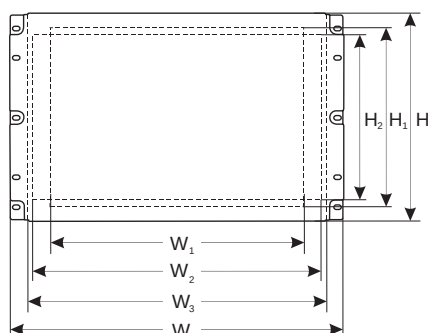
RAW07 metal enclosure is designed for mounting alarm control panel and input/output modules in RACK 19" cabinets. This enclosure is fitted with removable mounting plate (level I) and removable hinged mounting plate (level II). Enclosure has place for single 7Ah / 12V battery. Mounting plate (level I) has pre-embossed openings for transformer of TRP / and TRZ series and built-in power supply units of PS / PSB / and PSBOC series by Pulsar. Hinged mounting plate (level II) has openings for control panels and expansion modules from following companies: DSC, PARADOX, RISCO, SATEL, PYRONIX, CROW, and ROGER.



RAW07



Code	Static load	Mounting dimensions W×H	Dimensions W / W ₃ / H / D [± 2mm]	Mounting plate (level I) W ₁ ×H ₁ ×D ₁ [± 2mm]	Hinged mounting plate (level II) W ₂ ×H ₂ ×D ₂ [± 2mm]
RAW07	20kg	19"×7U	483 / 431 / 310 / 152	350×268×85	400×262×55



RAW07



Accessories:



ARAP16P / ARAP21P



MM019 / MM020



ARAW45

Possible to be mounted inside enclosure:



Transformer



Battery



Alarm
control panel



Modules

Accessories for RACK 19" cabinets

Enclosures for alarm control panel - horizontal, sliding

RACK 19"

RACK security enclosures are designed for mounting alarm control panel and input / output modules in free-standing RACK 19" cabinets with depths in range from 800 to 1000 mm. They consist of two elements:

1. Patch panel is used to switch between YTDY 6x0,5 cable with copper cores and elastic cable supplying signals and power to control panel.
2. Pull out enclosure with 2U / 4U height - alarm control panel and input / output modules are mounted in this section - with space for 7Ah / 17Ah battery, transformer and ARAW45 fan (transformer and fan are not included).

Universal holes in enclosure allow mounting control panels and expansion modules of following companies: DSC, PARADOX, RISCO, SATEL, PYRONIX, CROW, ROGER.



Sample product:
ARAD-S4



Standard RACK 19"



Fitting battery 7Ah/17Ah



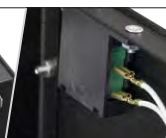
230V connector



Low-voltage connectors
3 (6) plates - 8x2 cores



Tamper indicating
pulling out of
enclosure



Tamper - unwanted
enclosure opening



Tamper
indicating patch
panel opening

Code	Signal wires (pairs x cross-section)	Number of PCB boards	Maximum current	Fitting battery	Mounting dimensions WxH	Mounting plate (level I)	Hinge mounting plate (level II)
ARAD-S2	24x0,5	3	1,5A / 30VDC	7Ah / 12V	19"x2U	250x260 (358x330)	n/a
ARAD-S4	48x0,5	6	1,5A / 30VDC	17Ah / 12V	19"x4U	155x278 (360x342)	370x284 (370x352)

For mounting inside RACK cabinet, use ARAS rails.
Depending on its depth:

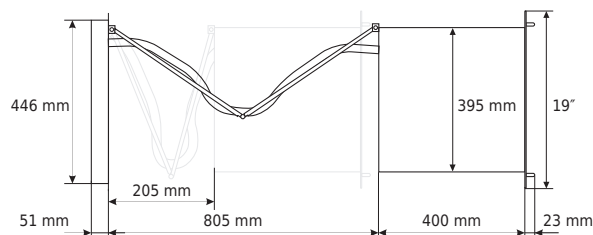
- ARAS800 for RACK cabinets, depth D=800
- ARAS1000 for RACK cabinets, depth D=1000

Accessories:

- ARAS800 / ARAS1000
- MM019 / MM020 / MM064
- ARAP16P / ARAP21P
- ARAW45
- AWZ618



Sample product: ARAD-S4



Level I



Level II



Sliding enclosure



Possible to be mounted inside enclosure:



Transformer



Battery



Alarm control
panel



Modules



Fan ARAW45

Accessories for RACK 19" cabinets

ARAD enclosures

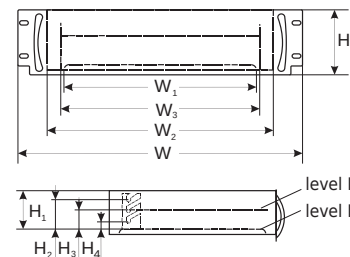
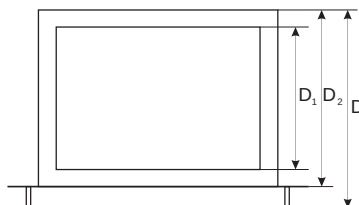
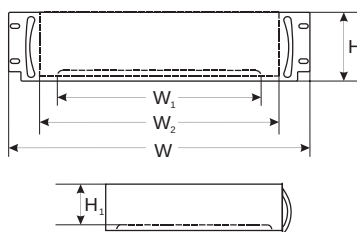
RACK 19"

Enclosures are intended for mounting inside RACK 19" cabinets. Enclosures allow integrate elements of CCTV, AC, I&HAS, RTV, LAN systems in RACK 19" cabinets. They are intended for mounting alarm control panels, AC controllers, power supply units, batteries, etc.

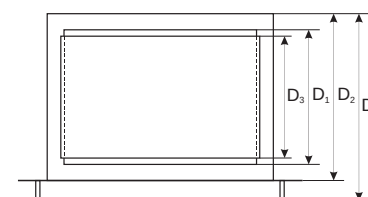


Sample product:
ARAD2

Code	Dedicated for RACK 19" cabinets with depth	Installation		Mounting dimensions W×H	Dimensions W ₂ ×D ₂ [+/- 2mm]	Mounting plate (level I) W ₁ ×D ₁ ×H ₁ [+/- 2mm]	Hinged mounting plate (level II) W ₃ / D ₃ / H ₂ / H ₃ / H ₄ [+/- 2mm]
		ARAS sliding rails	Front mounting (without ARAS ails...)				
ARAD1S	450	—	✓	19"×1U	395×270	n/a, H ₁ =40	n/a
ARAD2S		Accordingly to cabinet's depth: • depth 450 – ARAS450 • depth 600 – ARAS600 • depth 800 – ARAS800 • depth 1000 – ARAS1000	✓	19"×2U	395×270	358×228×70	n/a
ARAD3S			✓	19"×3U	395×400	358×358×70	n/a
ARAD4S			✓	19"×4U	395×270	358×228×113	n/a
ARAD2	600 / 800 / 1000		✓	19"×2U	395×400	358×358×113	n/a
ARAD3			✓	19"×3U	395×270	358×228×160	362 / 220 / 116 / 87 / 56
ARAD4			✓	19"×4U	395×400	358×358×160	362 / 350 / 116 / 87 / 56



Sample product: ARAD2



Possible to be mounted inside enclosure:



Power supply unit



Transformer



Battery



Alarm control
panel



Modules

Accessories for ARAD

ARAS rails for ARAD enclosures

Code	Dedicated for RACK 19" cabinets with depth				Mounting dimensions W×H	Adjustment D ₁ +D ₂ [+/- 2mm]	Dimensions W / H ₁ / D [+/- 2mm]
	450	600	800	1000			
ARAS450	✓	—	—	—	19"×1U	262÷388	40 / 48 / 270
ARAS600	—	✓	—	—	19"×1U	415÷610	40 / 48 / 400
ARAS800	—	—	✓	—	19"×1U	507÷705	40 / 48 / 400
ARAS1000	—	—	—	✓	19"×1U	668÷794	40 / 48 / 400



ARAS... rails



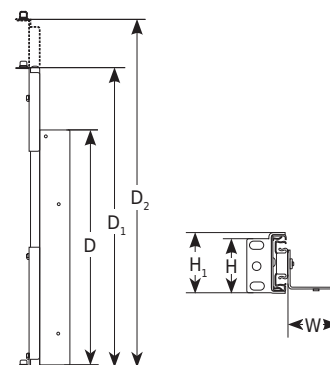
ARAW45 fan



ARAP16P, ARAP21P
glands



MM019, MM020
cable protection conduit



Accessories for RACK 19" cabinets

Drawers

RACK 19"

2U / 3U / 4U high RACK drawer are intended for storing / mounting supplementary elements in RACK cabinets.



Sample product:
RASR3



Standard RACK 19"



Front mounting

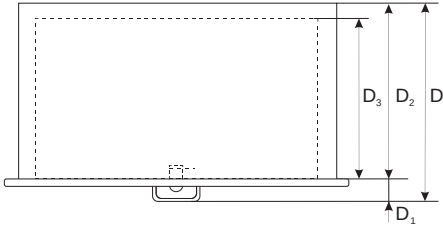
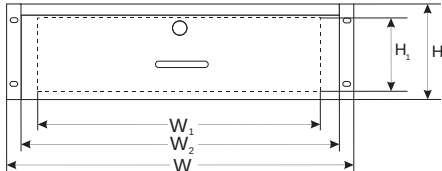


Lock



Partial extension
slide

Code	Mounting dimensions W×H×D ₂	Dimensions W×H×D [$\pm$ 2mm] W ₁ ×H ₁ ×D ₃ [$\pm$ 2mm]
RASR2	19"×2U×360mm	482×88×392 400×66×340
RASR3	19"×3U×360mm	482×132×392 400×109×340
RASR4	19"×4U×360mm	482×178×392 400×155×340



Sample product: RASR3



Accessories for RACK 19" cabinets

Enclosures with DIN rail

RACK 19"

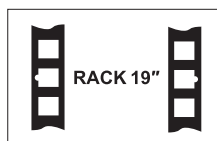
ARADIN1 – Voltage distribution panel is intended for mounting fuses, type: S in RACK 19" cabinet. One enclosure can accommodate max. 24 fuses, 1S wide.

ARADIN2 / ARADIN3 – Enclosures with DIN rail for RACK cabinets are intended for mounting equipment located inside. Each enclosure has rail, length: 24x1S. Height of module cannot exceed 160mm.

RADIN – Mounting plate of 4U high with DIN rail is designed for mounting devices on DIN rail in rear side of RACK 19" cabinets. Combination of rail with steel plate ensures rigid mounting of device on rail including possibility of attaching power cables / signal cables to mounting plate. RADIN offers economical alternative for enclosures ARADIN1, ARADIN2, ARADIN3 mounted in RACK 19" cabinets.



Sample product:
ARADIN3



Standard RACK 19"



Description field – 24
420x20mm



70mm panel for cable
management



DIN rail



Front mounting

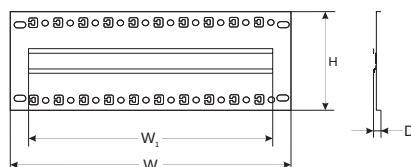
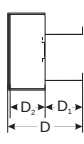
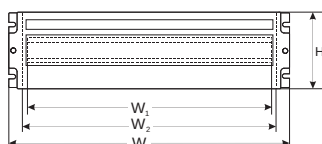


Mounting plate
for 7Ah battery included

Code	Number of "S" fields W_1	Mounting dimensions $W \times H$	Dimensions $W \times H \times D$ [± 2mm] $W_1 / W_2 / D_1 / D_2$ [± 2mm]
ARADIN1	24	19"×3U	482×131×140 427 / 450 / 70 / 62
ARADIN2	24	19"×3U	482×131×235 427 / 450 / 70 / 162
ARADIN3	24	19"×4U	482×174×235 427 / 450 / 70 / 162
RADIN	25	19"×4U	483×176×21 440 / - / - / -



Applies to model ARADIN2 / ARADIN3
Rubber cable bushings



Sample product: ARADIN3



Possibility of installing:



Electric fuses
of „S" type



Power supply units



Battery
18Ah/12V



Access control
(ACC)



Operating
automation module

Accessories for RACK 19" cabinets

Enclosure for switches

RACK 19"

ARADIN9 enclosure is designed for installing S type fuses in RACK 19" cabinets. By default, terminal strip for neutral conductor N – 13×16mm² and PE grounding wire – 13×16mm² is located in upper part of enclosure. There are 36 fields with width of 1S (two rows of 18 fields). Each S field has description field and punched metal end cap. In rear part of enclosure there are three shelves for safe and systematic installation of cables. Other devices, including power supplies and switches outside S type enclosures, can also be installed in enclosure.

For this purpose, each DIN rail can be mounted in following locations:

1. Level 1 – rear part of enclosure – devices outside DIN enclosure
2. Level 2 – dedicated for S type fuses



ARADIN9



Terminal strip
„N” – 13×16mm²
„PE” – 13×16mm²



Tamper – unwanted
enclosure opening



Description field + caps
2×18 × S



DIN rail 2x



Storage space for
documents



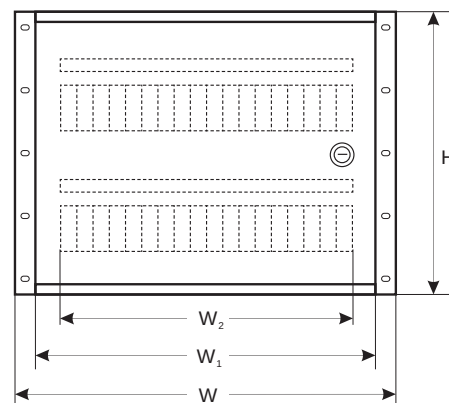
70mm panel for cable
management



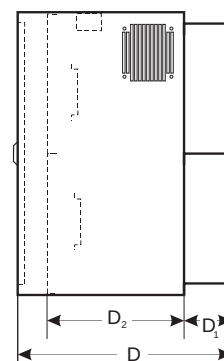
Removable hinges

Code	Number of „S” fields W ₂	Mounting dimensions W×H×D	Dimensions W / W ₁ / H / D / D ₁ / D ₂ [+/- 2mm]
ARADIN9 *	2 × 18 „S” 318	19"×9U×280	483 / 430 / 398 / 280 / 70 / 165

* available from: 1st 2020



ARADIN9



Possibility of installing:



Electric fuses of
„S” type



Power supply units for a DIN rail:
Pulsar / Mean Well



Accessories for RACK 19" cabinets

Masking frame with shelf for RACK power supply units

RACK 19"

RM1 masking frame is dedicated for RACK cabinets of R / RAC / RUPS / RUPS...R series. It protects connected power cords against damage or unauthorized access.



RM1

Destination:

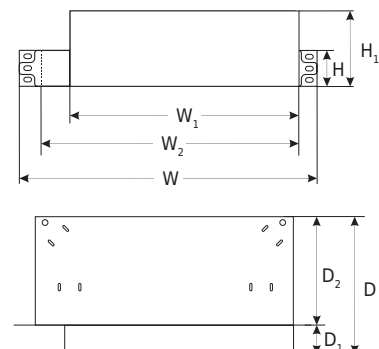


Before



After

Code	Dedicated for RACK	Mounting dimensions W×H	Dimensions W ₁ ×H ₁ ×D ₁ [+/- 2mm] W ₂ ×D ₂ [+/- 2mm]
RM1	R / RAC / RUPS / RUPS...R series	19"×1U	402×100×39 442×322



Accessories for RACK 19" cabinets

Battery enclosures

RAKU2 - Battery enclosure for RACK 19" cabinets designed for installation of 2×17Ah or 4×7Ah batteries. It is mounted in rear of RACK cabinet (of RWA / RW / RWD / RS and ZRS series) behind buffer power supply units and buffer switches by Pulsar.

RAKU3 - Battery enclosure for RACK 19" cabinets designed for installation of 4×17Ah or 4×7Ah batteries. It is fitted with four BAT1+BAT4 connectors for capacity and voltage configuration of batteries inside enclosure.



RAKU2



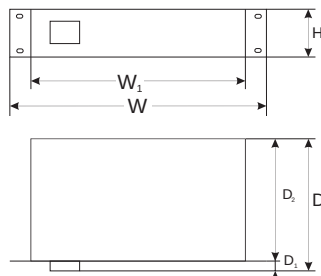
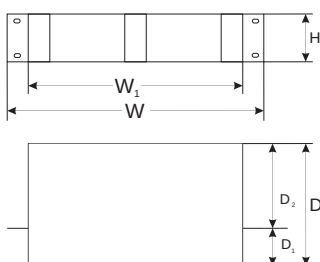
RAKU3

Accessories for RAKU2:



RAKU2-ZP

Code	Fitting battery	Mounting dimensions W×H	Dimensions W×H×D [+/- 2mm] W ₁ / D ₁ / D ₂ [+/- 2mm]
RAKU2	2×17Ah / 12V 4×7Ah / 12V	19"×2U	483×88×180 429 / 60 / 120
RAKU3	4×17Ah / 12V 4×7Ah / 12V	19"×2U	483×88×422 435 / 12 / 410



Accessories for RACK 19" cabinets

Fixed shelves, mounting rails

RACK 19"

RAPD600 – Front mounted shelf with dimensions of 445×315 is universal fixed shelf dedicated for RACK 19" cabinets of RWA / RW / RWD / RS and ZRS type. It is front mounted in RACK profiles.

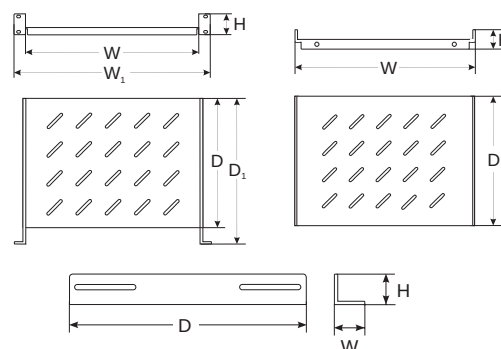
RAPS... – Fixed shelves for RACK 19" cabinets of RWA / RW / RWD / RS and ZRS type. They are side mounted in RACK profiles.

RASM... – Mounting rails 450/600/800/1000 are intended for supporting to front mount heavy devices (switch, PSU, UPS) in RACK 19" cabinets.



Sample product:
RAPD600

Code	For RACK cabinets, type / Depth								Shelf dimensions W×D [+/- 2mm]	External dimensions W ₁ / H / D ₁ [+/- 2mm]
	RWA	RW	RWD	RS and ZRS	450	600	600	800	1000	
RAPD600	✓	✓	✓	✓	✓	✓	✓	✓	✓	445×315
RAPS450	✓	—	✓	—	✓	—	—	—	—	485×250
RAPS600	—	✓	—	✓	—	✓	—	—	—	485×350
RAPS800	—	—	—	—	—	—	✓	—	—	485×550
RAPS1000	—	—	—	—	—	—	—	✓	—	485×750
RASM450	✓	—	✓	—	✓	—	—	—	—	45×250
RASM600	—	✓	—	✓	—	✓	—	—	—	45×350
RASM800	—	—	—	—	—	—	✓	—	—	45×550
RASM1000	—	—	—	—	—	—	—	✓	—	45×750



Accessories for RACK 19" cabinets

Sliding shelves

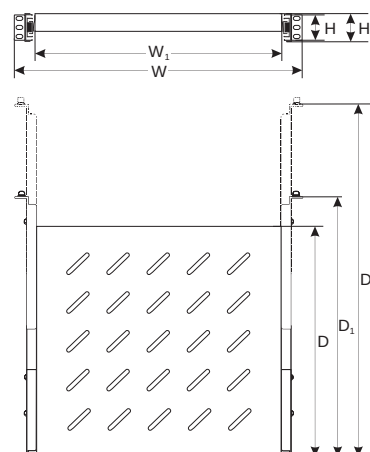
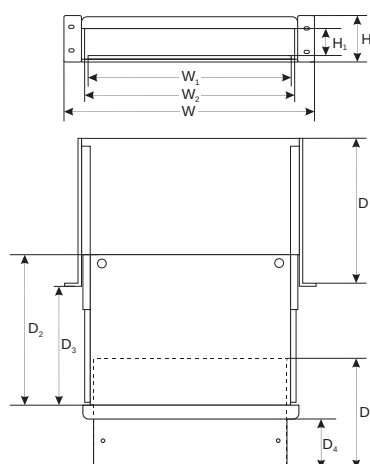
RAPW-K – Pull out shelf for keypads and mouse dedicated for free-standing RACK cabinets with computer to monitor / configure devices included in system.

RAPW... – Pull-out shelves for RACK 19" cabinets of RWA / RW / RWD / RS and ZRS type. They are mounted in front and rear RACK profiles and offer possibility of smooth adjustment of rear brackets. Rails have full extension slide possibility and load capacity of 15kg. Full extension slide guarantees access to devices mounted outside RACK cabinets.



Sample product:
RAPW600

Code	For RACK cabinets, type / Depth								Static load	Mounting dimensions W×H	Shelf dimensions W ₁ ×D [± 2mm]	Adjustment D ₁ ±D ₂ [± 2mm]
	RWA	RW	RWD	RS and ZRS	450	600	600	800	1000			
RAPW-K	—	—	—	—	—	—	✓	✓	✓	20 kg	19"×2U (W ₁ =408, D ₁ =300) (W ₂ =414, D ₂ =303)	—
RAPW450	✓	—	✓	—	✓	—	—	—	—	15 kg	19"×1U	261±390
RAPW600	—	✓	—	✓	—	✓	—	—	—	15 kg	19"×1U	412±610
RAPW800	—	—	—	—	—	—	—	✓	—	15 kg	19"×1U	463±661
RAPW1000	—	—	—	—	—	—	—	—	✓	15 kg	19"×1U	623±822

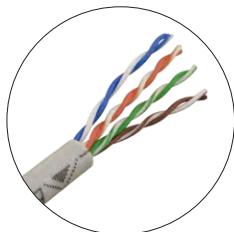


Accessories for RACK 19" cabinets

Patch panels - Cat. 5e and 6 - UTP / FTP

RACK 19"

Patch panels are final element of structured network cabling in RACK 19" cabinets.
Fundamental element of telecommunication network.



UTP twisted pair
(unshielded)

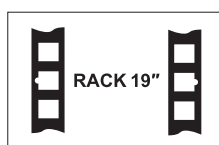


FTP twisted pair
(shielded)

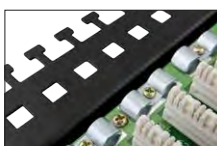


Sample product:
RP-F24V6

Applies: RP-F24V5 and RP-F24V6



Standard RACK
19" x 1U



Twisted pair
assembly



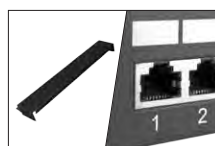
Graphic
designation A / B



Label field
of RJ45 connector



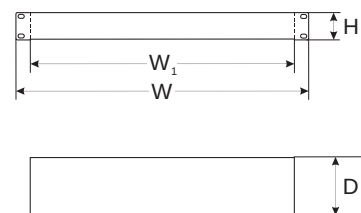
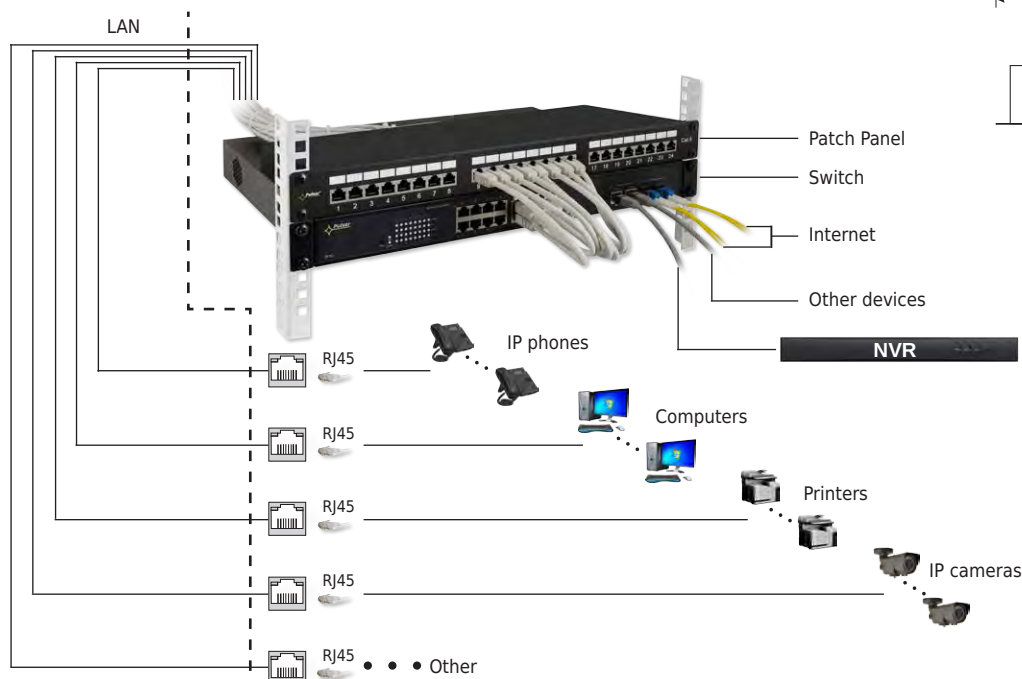
Grounding wire



Shielding elements

Code	Number of ports	Category	Twisted pair type	Mounting dimensions W×H×D	Installation of connectors LSA	Description field	Numbering of RJ45 connectors	Mounting shelf for cables
RP-U24H5	24	Cat 5e	UTP	19"×1U×120mm	vertical	✓ / ✓	✓	✓
RP-U24V5	24	Cat 5e	UTP	19"×1U×110mm	horizontal	✓ / ✓	✓	✓
RP-U48V5	48	Cat 5e	UTP	19"×1U×89mm	horizontal	— / ✓	✓	✓
RP-F24V5	24	Cat 5e	FTP	19"×1U×110mm	horizontal	✓ / ✓	✓	✓
RP-U24V6	24	Cat 6	UTP	19"×1U×110mm	horizontal	✓ / ✓	✓	✓
RP-F24V6	24	Cat 6	FTP	19"×1U×110mm	horizontal	✓ / ✓	✓	✓

Sample product: RP-F24V6



Accessories for RACK 19" cabinets

Fans

RACK 19"

RAW1 / RAW2 – Fan designed for mounting in upper plate of wall mounted RACK cabinets of RWA / RW / RWD type. Forces air circulation from inside cabinet to outside. Mounted from inside, in upper part of RACK cabinet. They are fitted with 230VAC non-detachable power cord with 2m length.

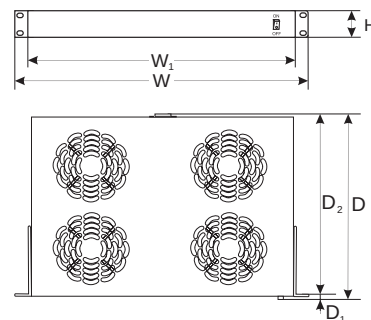
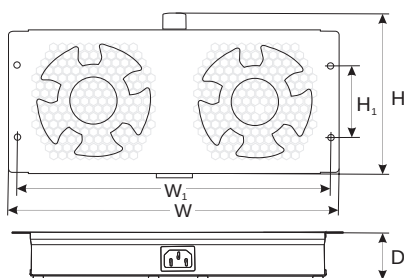
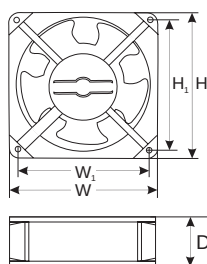
RAWP – Panel of two fans designed for mounting in upper plate of free-standing RACK cabinets of RZ / ZRS type. Forces air circulation from inside cabinet to outside. Mounted from outside, in upper part of RACK cabinet. Possibility of cascade connection of panels. It is fitted with 230VAC detachable power cable with 2m length.

RAWP-1 – Panel of four fans in RACK 19" enclosure with 1U height. Forces air circulation between active devices generating heat inside RACK cabinets. It is fitted with a 230VAC detachable power cord with 2m length. Thermostats RAT and RAT-1R are dedicated for RAWP-1 fans panel.



Sample product:
RAWP-1

Code	Number of fans	Dedicated for RACK 19" cabinets:					Mounting dimensions $W_1 \times H_1$	Dimensions $W \times H \times D$ [± 2mm]
		RWA	RW	RWD	RS	ZRS		
RAW1	1	✓	✓	✓	—	—	105×105	120×120×38
RAW2	2	✓	✓	✓	—	—	105×105	120×120×38
RAWP	2	—	—	—	✓	✓	285×65	298×150×47
RAWP-1	4	✓	✓	✓	✓	✓	(W×H) 19"×1U	483×43×304



Accessories for RACK 19" cabinets

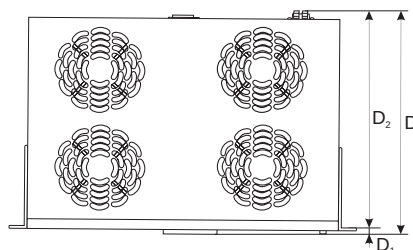
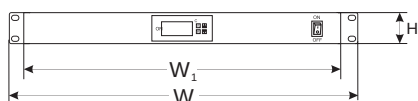
Fans with thermostat

RAWP-1R – Panel of four fans with integrated digital thermostat in RACK 19" enclosure with 1U height. Forces air circulation between active devices generating heat inside RACK cabinets. It is fitted with detachable temperature sensor with 2m length and with 230VAC detachable power cord with 2m length.

Code	Mounting dimensions $W \times H$	Dimensions $W \times H \times D$ [± 2mm] $W_1 / D_1 / D_2$ [± 2mm]
RAWP-1R	19"×1U	483×43×315 430 / 10 / 305



RAWP-1R



Accessories for RACK 19" cabinets

Thermostats

RACK 19"

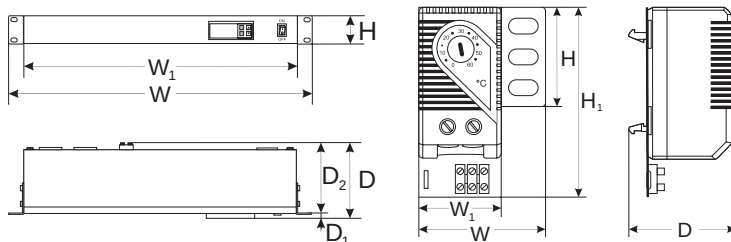
RAT - Bimetallic thermostat dedicated for controlling fan units of RAW1 / RAW2 and RAWP type. Equipped with metal mounting bracket for mounting 1U on RACK profile.

RAT-1R - Digital thermostat panel in RACK 19" enclosure with 1U height. It is fitted with two power sockets - used for controlling fan units of RAW1 / RAW2 and RAWP type. Panel is fitted with detachable temperature sensor with 2m length and with 230VAC detachable power cord with 2m length.



Sample product:
RAT-1R

Code	Mounting dimensions W×H	Dimensions W×H×D [± 2mm] W ₁ / H ₁ / D ₁ / D ₂ [± 2mm]
RAT	1U	53×41×43 34 / - / - / -
RAT-1R	19"×1U	483×43×130 430 / - / 10 / 120



Accessories for RACK 19" cabinets

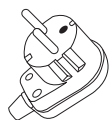
Power distribution units

Power distribution units are mounted between RACK rails. They enable plugging up to 8 devices supplied with 230VAC.

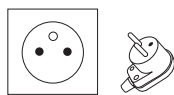


Sample product:
RALZ/C13

RALZ

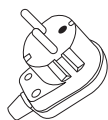


plug:
type: E/F
(„Unischuko“)

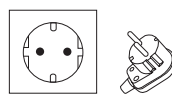


socket:
type: E

RALZ/F

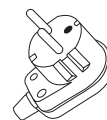


plug:
type: E/F
(„Unischuko“)

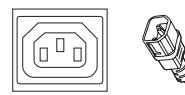


socket:
type: F
(„Schuko“)

RALZ/C13

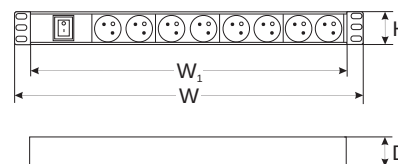


plug:
type: E/F
(„Unischuko“)



socket:
type: C13
(female)

Code	Plug type	Socket type	Number of sockets	Power	Mounting dimensions W×H	Dimensions W×H×D [± 2mm]
RALZ	E/F „Unischuko“	E	8	3500W	19"×1U	484×45×45
RALZ/F	E/F „Unischuko“	F „Schuko“				
RALZ/C13	E/F „Unischuko“	C13				



Accessories for RACK 19" cabinets

Lighting

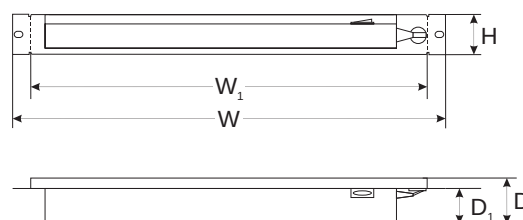
RAOS lighting should be mounted at rear or at front side of RACK 19" cabinets. It is designed for lighting inside of cabinet during installation or servicing. Lighting is designed for RWA, RW and RWD wall mounting cabinets or for RS and ZRS free standing cabinets.

RACK 19"



RAOS

Code	Power supply	Mounting dimensions W×H	Dimensions W×H×D [± 2mm] D ₁ [± 2mm]
RAOS	230VAC / 8W	19"×1U	483×43×60 46



Accessories for RACK 19" cabinets

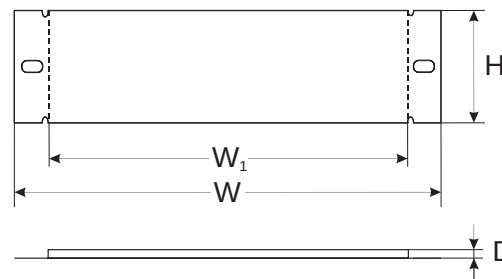
Blanking panels

Blanking panels for RACK 19" cabinets are intended for blanking empty spaces between parts of equipment mounted inside cabinets.



Sample product:
RAPZ4

Code	Mounting dimensions W×H	Dimensions W×H×D [± 2mm]
RAPZ1	19"×1U	482×45×12
RAPZ2	19"×2U	482×88×12
RAPZ3	19"×3U	482×133×12
RAPZ4	19"×4U	482×177×12



Accessories for RACK 19" cabinets

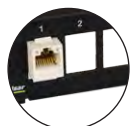
Patch panel frames

RACK 19"

Patch panel frames are designed for installation (depending on model) up to 24 „F” type / Keystone RJ45 / single SC-APC / double SC-APC connectors in RACK 19" cabinets.



RAP-F



RAP-RJ45



RAP-SCAPC1



RAP-SCAPC2



Sample product:
RAP-SCAPC2

Code	Connector type	Accessories	Module space	Mounting dimensions W×H	Dimensions W×H×D [+/- 2mm]
RAP-F	F	GF-GF	24	19"×1U	483×43×13
RAP-RJ45	keystone RJ45	GF-GF-K, RJ45/5U-K, SC/APC-1SM-K			
RAP-SCAPC1	SC / APC	SC/APC-1SM			
RAP-SCAPC2	double SC / APC modules	SC/APC-2SM			

Accessories:



GF-GF



GF-GF-K



RJ45/5U-K



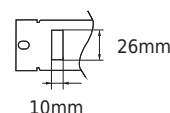
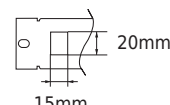
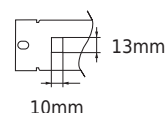
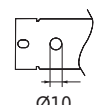
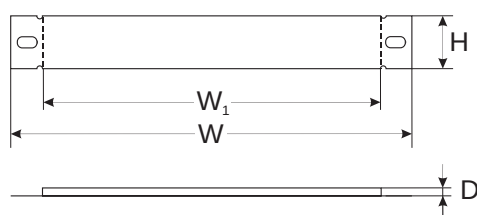
SC/APC-1SM-K



SC/APC-1SM



SC/APC-2SM



Accessories for RACK 19" cabinets

Cable management panels

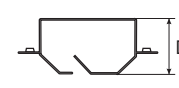
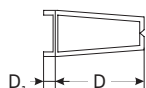
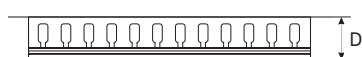
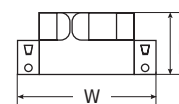
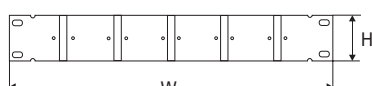
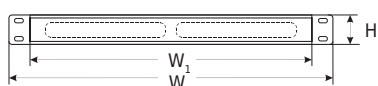
RAOK-1M/P/T – Cable management panels are designed to organize and protect horizontal cabling in RACK cabinet against accidental damage.

RAOK-LR – Cable management panel is designed to organize and protect vertical cabling in RACK cabinets of RS / ZRS type against accidental damage (RACK cabinet width – 600mm).



Sample product:
RAOK-1P

Code	Mounting dimensions W×H	Dimensions W×H×D [+/- 2mm]
RAOK-1M	19"×1U	483×44×70
RAOK-1P	19"×1U	482×44×69
RAOK-1T	19"×1U	483×35×11
RAOK-LR	—	116×52×45



Accessories for RACK 19" cabinets

Brush grommets

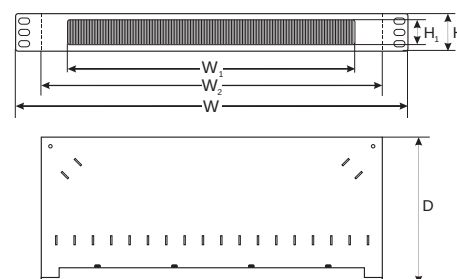
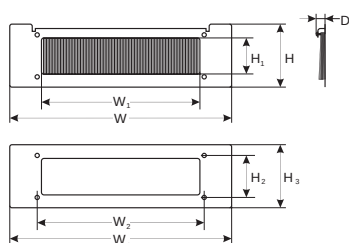
Brush grommets for RACK cabinets enable entering cables aesthetically and protect cabinet against intrusion of any objects.

RACK 19"



Sample product:
RAPS-1P

Code	Dedicated for RACK 19" cabinets:					Mounting dimensions W×H	Dimensions W×H×D [± 2mm] W ₁ ×H ₁ [± 2mm]
	RWA	RW	RWD	RS	ZRS		
RAPS-U	✓	✓	✓	—	—	—	380×80×16 230×40
RAPS	—	—	—	✓	✓	—	273×64×16 220×40
RAPS-1	✓	✓	✓	✓	✓	19"×1U	483×44×16 320×25
RAPS-1P	✓	✓	✓	✓	✓	19"×1U	483×44×322 320×25

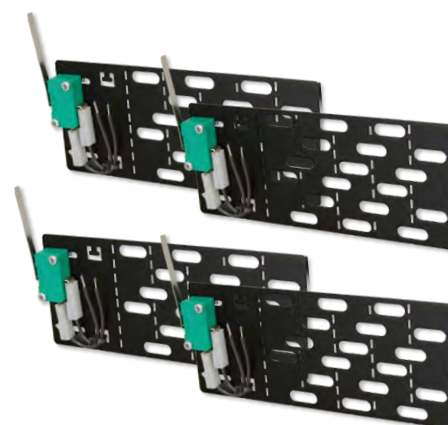
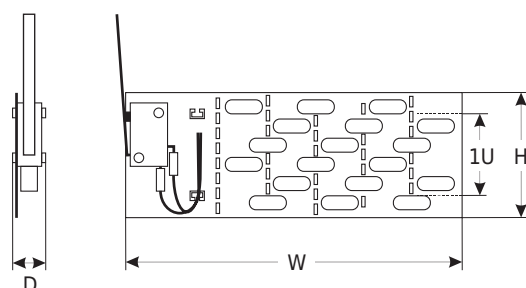


Accessories for RACK 19" cabinets

Tampers

Tampers are designed to protect RACK 19" cabinets against unauthorized opening. Alarm is activated by opening front, rear or side doors of cabinet.

Code	For RACK cabinets	External dimensions W×H×D [mm]
RWST	RW / RWA / RWD / RS / ZRS	153×66×17



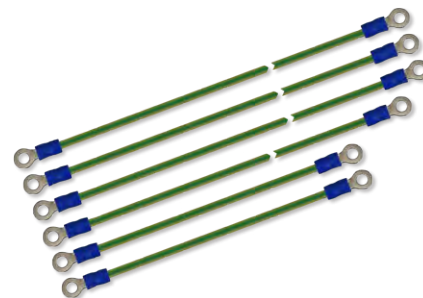
RWST

Accessories for RACK 19" cabinets

Grounding wires

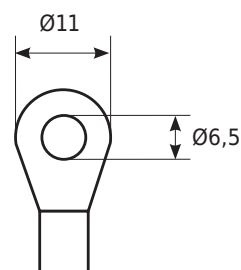
RACK 19"

Sets of grounding wires are designed to ground all components of RACK 19" cabinets.



Sample product:
RAPU

Code	For RACK cabinets	Length
RAPU	RWA / RW / RWD	3×120cm, 1×60cm, 2×30cm
RAPU-Z	RS / ZRS	1×280cm, 1×80cm, 6×40cm



Accessories for RACK 19" cabinets

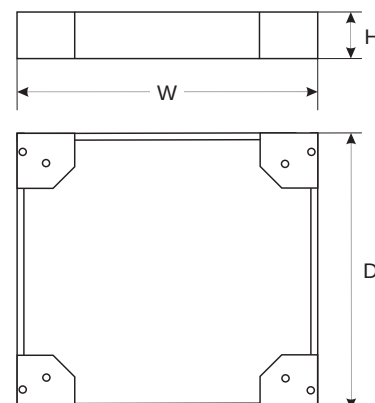
Plinths

Plinths with height of 100mm are designed for RS and ZRS free-standing cabinets.
Allows stabilizing cabinet and floor mounting.



Sample product:
RAC166M

Code	For RACK cabinets, type: RS / ZRS width × depth [mm]	Dimensions W×H×D [+/- 2mm]
RAC166M	600×600	596×100×596
RAC168M	600×800	596×100×796
RAC1610M	600×1000	596×100×996
RAC188M	800×800	796×100×796
RAC1810M	800×1000	796×100×996



Accessories for RACK 19" cabinets

Casters, leveling feet

RACK 19"

RAK – Casters for free standing RACK cabinets. Set of 4 casters enables easy moving and position adjustments of cabinet.

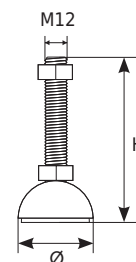
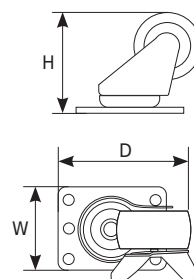
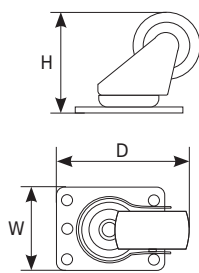
RAKB – Casters for free standing RACK cabinets. Set of 4 casters enables easy moving of cabinet and locking it in selected position.

RAN – Leveling feet are for leveling and stabilising RACK cabinet with all mount devices.



Sample product:
RAKB

Code	Dimensions W×H×D [± 2mm]
RAK	55×70×85
RAKB	55×70×85
RAN	M12 / Ø=32, H=90



Accessories for RACK 19" cabinets

Locks, fasteners, screws

RAZ25 – Universal round lock 25 is intended for front / rear door of RACK cabinets, type: RWA, RW, RWD, RS, ZRS.

RAZB16 – Round side panel lock 16 is intended for mounting in side panels of RACK cabinets, type: RW, RWD, RS, ZRS.

RAZ-D – Lock intended to rear door of RACK cabinets RWD series.

RAZ-S – Universal front door lock for RACK cabinets of RS / ZRS types.

RAS4 – Set of four M6 screws is intended for mounting devices inside RACK standard enclosure in RACK cabinets.



Sample product:
RAZ-S

Code	Dimensions [mm]
RAZ25	D=35
RAZB16	D=26
RAZ-D	D=35
RAZ-S	141×33×53
RAS4	M6×12

Other accessories

Connectors



ML108
Reduction - CABLE-OUTLET
DC 5.5/2.1



ML109
Reduction - CABLE-PLUG
DC 5.5/2.1



ML120
Reduction - CABLE-OUTLET
DC 5.5/2.1/N



ML121
Reduction - CABLE-PLUG
DC 5.5/2.1/N



ML517
Power adapter for
HIKVISION DVR
(DIN 4 pin/ 5.5/2.1 socket)



GF-GF
GF-GF Transition
socket F - socket F
(professional)



GF-GF-K
GF-GF double F type
adapter (professional),
keystone



RJ45/5U-K
RJ45 modular connector,
cat. 5e, UTP (keystone)



SC/APC-1SM-K
APC-1SM fiber optic
adapter - single mode,
keystone



SC/APC-1SM
APC-1SM fiber optic
adapter - single mode



SC/APC-2SM
APC-2SM fiber optic
adapter - single mode



TB-2
TB-2 termination box

Cables



PSD13
Cable 230VAC 3x0.75mm², 2m, CEE 7/7 (EF),
IEC C13 angled plug



PSD14
Cable 230VAC 3x0.5mm², 1.5m, CEE 7/7 (EF), IEC C13



PSD15
Cable 230VAC 3x1mm², 2m, CEE 7/7 (EF), IEC C13



SP4
Splitter 4 DC 5.5/2.1

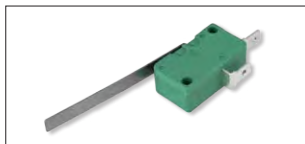


SP8
Splitter 8 DC 5.5/2.1



PKAZ040
Set of grounding cables to enclosures

Tampers



ML106
TAMPER B



ML101
TAMPER S

Locks



MR008
Lock, type 802 - various code



MR027
Lock, type 876 - repeatable code



MR045
Lock, type B254
- repeatable code



MR009
Raw key (for MR008 / MR027)



MR042
Key 9081 (for MR027)

Other accessories

Bracket DIN



AWO466
Bracket DIN TRP/TRZ20-40VA



AWO467
Bracket DIN TRP/TRZ 50-150VA



PSDIN1
Bracket DIN/PS/PSB1



PSDIN2
Bracket DIN/PS/PSB2



PKAZ107
Mounting kit for DIN rail

Mounting elements



ML146
Cable glands M12x1.25



ML147
Cable glands M16x1.5



ML145
Cable glands M20x1.5



ARAP16P
Cable gland fi 16mm



ARAP21P
Cable gland fi 21mm



MM064
Cable protection conduit fi 6



MM019
Cable protection conduit fi 16



MM020
Cable protection conduit fi 21



RAS4
Screw set RACK 4 pcs.



OZB1 / OZB2 / OZB3 / OZB4
Pole mount bracket



PW100
Mounting pin Ø6



MM054
Adhesive pin spacer
Ø6 - LCBSB-4-01-ART

Others



ML062
Angle muff 6,3/KK45-0,8-5,1

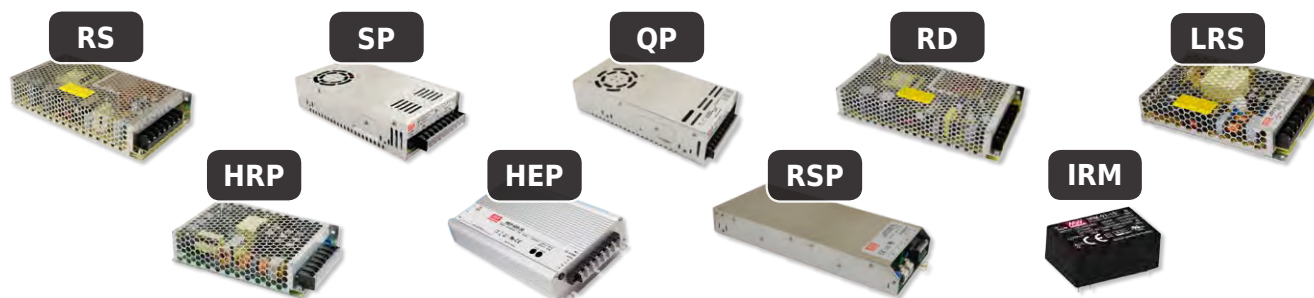


ARAW45
Fan with temperature sensor 45°C



RAW DIN
DIN rail fan with 45°C temperature sensor

Enclosed power supply units



Power supply units for DIN rail



Buffer power supply units



Power supply units for DIN rail - buffer



Power supplies for LED lighting



DC/DC voltage converters (inverters)

- with full sinusoid
- with full sinusoid and UPS function
- with modified sinusoid
- input voltage $U_{IN} = 12VDC / 24VDC / 48VDC$
- output voltage $U_{OUT} = 110VAC / 230VAC$



DC/DC voltage converters



Battery chargers



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