



2024

30 YEARS
OF EXPERIENCE



MANUFACTURER OF POWER SUPPLIES,
METAL ENCLOSURES AND ELECTRONICS

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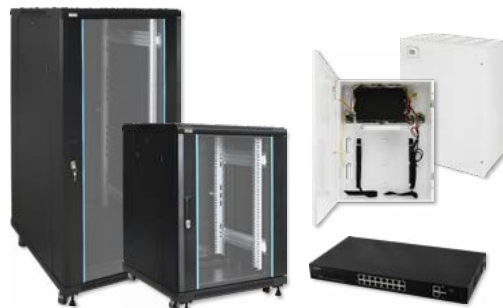
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Available on request

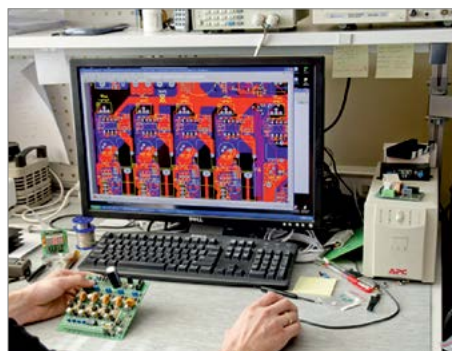
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Power supply units with battery backup

HPSB series

19



- switch mode
- 13,8 V DC / 27,6 V DC / 54 V DC

HPSBH series

20



- switch mode
- 13,8 V DC
- ABS enclosure – IP44

HPSG2 series

21



- switch mode
- 13,8 V DC / 27,6 V DC
- with technical outputs
- compliant with standards:
 - alarm system EN50131-6 for grades 1, 2 (Grade 1, 2)
 - access control EN60839-11

HPSG2H series

22



- switch mode
- 13,8 V DC
- with technical outputs
- compliant with standards:
 - alarm system EN50131-6 for grades 1, 2 (Grade 1, 2)
 - access control EN60839-11
- ABS enclosure – IP44

HPSDCG2 series

23



- switch mode, multi-output
- 13,8 V DC
- with technical outputs
- compliant with standards:
 - alarm system EN50131-6 for grades 1, 2 (Grade 1, 2)
 - access control EN60839-11

AWZG2 series

24



- 13,8 V DC / 27,6 V DC
- with technical outputs
- compliant with standards:
 - alarm system EN50131-6 for grades 1, 2 (Grade 1, 2)
 - access control EN60839-11

HPSG3 series

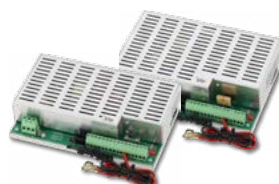
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- switch mode
- 13,8 V DC / 27,6 V DC
- with technical outputs
- compliant with standards:
 - alarm system EN50131-6 for grades 1, 2, 3 (Grade 1, 2, 3)
 - access control EN60839-11
- LCD version – communication LAN, RS485 – appropriate modules required

PSG3 series

27



- switch mode
- 13,8 V DC / 27,6 V DC
- with technical outputs
- compliant with standards:
 - alarm system EN50131-6 for grades 1, 2, 3 (Grade 1, 2, 3)
 - access control EN60839-11

Accessories for HPSG3...LCD series

29

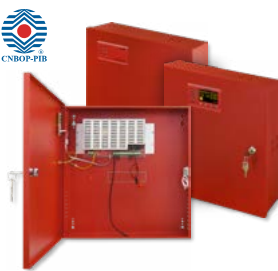
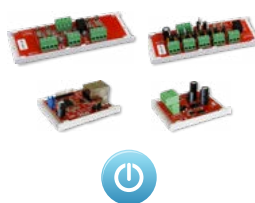


- interfaces (LAN, RS485)
- „PowerSecurity“ web application



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Power supply units with battery backup

EN54C series	30	 • switch mode • 27,6 V DC • EN54-4 and EN12101-10 certified • communication: LAN, RS485 – appropriate modules required	 • switch mode • 27,6 V DC • compliant with EN54-4 standard for fire detection
		RED POWER plus	RED POWER plus
Accessories for EN54C, EN54M series	34	 • fuse modules • sequential modules • interfaces (LAN, RS485) • „PowerSecurity“ web application	 • switch mode • 13,8 V DC • power supply unit for Access Control Systems

Batteries

HPB, SCB series	36	
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Enclosed power supply units

PS series	37	 • switch mode • 12 V DC / 48 V DC	 • switch mode • with battery backup 13,8 V DC / 27,6 V DC / 54 V DC
PSG2 series	39	 • switch mode • with battery backup 13,8 V DC / 27,6 V DC • with technical outputs • compliant with standards: ◦ alarm system EN50131-6 for grades 1, 2 (Grade 1, 2) ◦ access control EN60839-11	 • switch mode, multi-output • with battery backup 13,8 V DC • with technical outputs • compliant with standards: ◦ alarm system EN50131-6 for grades 1, 2 (Grade 1, 2) ◦ access control EN60839-11

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

S series

42



- 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

43



- PoE switch with power supply unit
- 1 Gb/s ports
- number of outputs: 2 / 4 / 8

SF series

44



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

SFG series

45



- PoE switch with power supply unit
- with SFP sockets
- 1 Gb/s ports
- number of outputs: 4/8/16/24

SFG10F8 series

46



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

S...WP, SG...WP, SF...WP, SFG...WP series

48



- PoE switch without power supply
- 10/100 Mb/s and 1 Gb/s ports
- number of outputs: 4 / 8 / 16 / 24
- for installation in universal power supply systems SWS / SWB / SWR / SWSH / SWBH series

PoE switches for IP cameras, industrial (compliant with IEEE 802.3af/at)

ISFG, ISF series

47



- industrial
- PoE switch without power supply units
- with SFP sockets
- 10/100 Mb/s and 1 Gb/s ports
- number of outputs: 2 / 4 / 8
- possibility of redundant supplying

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Power supply systems for PoE switches

SWS series

49



- switch mode power supply 52 V DC
- operation with PoE switches: 4/8 ports

SWB series

50



- switch mode power supply 52 / 54 V DC
- uninterruptible power
- operation with PoE switches: 4/8 ports

SWB-RACK series

51



- switch mode power supply 54 V DC
- operation with PoE switches: 4 / 8 / 16 / 24 ports
- RACK 19" brackets
- recorder space

SWR series

52



- switch mode power supply 52 V DC / 54 V DC
- recorder power supply 12 V DC
- operation with PoE switches: 4/8 ports
- recorder space

SWSH series

53



- switch mode power supply 52 V DC
- ABS enclosure – IP56
- operation with PoE switches: 4/8 ports

SWBH series

54



- switch mode power supply 52 V DC / 54 V DC
- ABS enclosure – IP44
- operation with PoE switches: 4/8 ports

PoE power supplies with battery backup enclosed 52 V DC

PWB series

55



- switch mode power supply 52 V DC
- recommended batteries:
 - 1x 7 – 17Ah
 - 2x 7 – 17Ah

PoE switches for IP cameras – in hermetic enclosure IP56 (compliant with IEEE 802.3af/at)

S...H, SG...H, SFG...H series

56



- PoE switch for IP cameras with power supply
- desktop type power supply included
- 10/100 Mb/s and 1 Gb/s ports
- number of outputs: 4

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

GBIC series

57



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

Twisted pair wires

PU-NC series

58



- U/UTP (unshielded cable)
- indoor / outdoor

Alarm, intercom, telecommunication cables

PU-SC series

59



- YTDY
- 6x0,5 / 8x0,5

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Multi-output power supply units (HD-CVI / HD-TVI / AHD cameras, access control, other applications)

HPSDC series	60
 • 12 V DC • number of outputs: 4 / 8 / 16 (e.g. cameras HD) • fuse type: glass fuse	
PSDC series	61
 • 12 V DC • number of outputs: 4 / 8 / 16 (e.g. cameras HD) • fuse type: glass fuse • enclosed	
HPSDCSEP series	62
 • 12 V DC • number of outputs: 4 (e.g. cameras HD) • with adjustable output voltage and galvanic separation of each channel • fuse type: glass fuse	
PSDCSEP series	63
 • 12 V DC • number of outputs: 4 (e.g. cameras HD) • enclosed • with adjustable output voltage and galvanic separation of each channel • fuse type: glass fuse • enclosed	
PSAC series	64
 • ~24 V AC or ~27 V AC • number of outputs: 8 (e.g. cameras HD) • fuse type: glass fuse / PTC • with failure outputs	
PSACH series	65
 • ~24 V AC or ~27 V AC • number of outputs: 1 (e.g. cameras HD) • fuse type: glass fuse • IP65 hermetic enclosure	

Battery controllers

AWZ series	67
 • 12 V DC / 24 V DC / 48 V DC • cooperation with 13,8 / 27,6 / 54 V • uninterruptible power supply units	

RACK cabinet system RACK19" DSO-PRA for PRAESENSA system by BOSCH

DSO-PRA	68
 • VAS cabinets • Devices VAS: BOSCH – PRAESENSA • Fans, thermostat, batteries, wheels • Safety contact strip • 230 V AC voltage distribution terminal • Indication panel • Firefighter's microphone power supply unit • Enclosure of firefighter's microphone • Power adapter of firefighter's microphone • Ethernet communication (BOSCH) • Configuration software for DSO-PRA – Bosch PRAESENSA	

DSOP24V Power System for PAVIRO system by BOSCH (certified with: EN54-4, EN12101-10 / standards)

DSOP24V	69
 • VAS cabinets • Devices VAS: BOSCH – PAVIRO • Fans, thermostat, batteries, wheels • Power supplies for VAS • Safety contact strip • 230 V AC voltage distribution terminal • Indication panel • Firefighter's microphone power supply unit • Enclosure of firefighter's microphone • Power adapter of firefighter's microphone • Ethernet communication • Configuration software for DSOP24V – Bosch PAVIRO	

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Power supply units for DIN rail

DING2 series

70



- power supply units with battery backup 13,8 V DC / 27,6 V DC
- compliant with standards:
 - alarm system EN50131-6 for grades 1, 2 (Grade 1, 2)
 - access control EN60839-11

Plug-in and desktop type power supplies

PSA series

71



- 12 V DC plug-in type

PSD series

72



- 12 V DC / 15 V DC / 52 V DC desktop type

PSC series

73



- 12 V DC / 13,8 V DC
- hermetic enclosure IP67
- epoxy encapsulated

PSP series

74



- PoE Power Supply
- 52 V DC desktop type

Desktop type power supplies with battery backup

PSCLB series

75



- 13,8 V DC
- power supply unit with battery backup 13,8 V DC
- hermetic enclosure IP67
- epoxy encapsulated

Accessories for CCTV cameras – HD cameras

Transmitters, converters

76



Accessories for CCTV cameras – IP cameras

Adapters / Splitters

76



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

57



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

Extenders PoE

77



- increases Ethernet and PoE power range by 100 meters
- desktop type / for DIN rail

Extenders PoE – hermetic enclosure IP56

78



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

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Power supply modules with battery backup

MSRK series

79



- power supply 20–22 V AC
- switch mode 13,8 V DC
- compliant with standards:
 - alarm system EN50131-6 for grades 1, 2 (Grade 1, 2)
 - access control EN60839-11

DC/DC power converter modules

DC/DC series

80



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

DCDCH / DC/DC series

80



- step down
- hermetic IP67, epoxy encapsulated
- in plastic enclosure

Voltage reducers

RN series

82



- reduce voltage:
 - 13,8 V DC → 12 V DC

Fuse modules

Distribution modules

83



- PTC
- glass fuse
- with technical outputs

Distribution modules in plastic enclosures

84



- PTC
- glass fuse

Straight-through

85



- 230 V AC – glass fuse (galvanic separation of each output)

Relay and time modules

Relay modules

85



- 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

86



- DC power, without fuse

Time modules

86



- multi-function relay – C/NO/NC – 230 V AC
- with OC output
- with relays – C/NO/NC – 30 V DC

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Transformers

TRP, TRZ, EI series, others

87

- range: 10VA – 80VA



Panic alarm buttons

Foot-operated panic button

88

- PN series



Accessories

Module AWZ642

89

- module for conversion technical outputs (OC type) into technical outputs of relay type (C/NO/NC)
- dedicated to power supply units series: AWZG2 / MSRK / PSG3 / HPSG3



Accessories

134

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



Mean Well products



Power supply units

136

- enclosed
- for DIN rail
- with battery backup
- for LED lighting



Power converters

136

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



Battery chargers

136

- 12V / 24V / 48V
- charger with capacity from 120W to 1000W



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Enclosures for alarm control panels Surface-mounted

Standard – fitted with transformer of TRP series / with power supply **90**



- Universal
- SATEL
- PARADOX
- DSC
- KSENIA

GRADE 3 – fitted with transformer of TRP / TRZ series **91**



- SATEL
- PARADOX

Two-level – fitted with transformer of TRP series **92**



- Universal

With power supply of LRS series **92**



- RISCO

Empty – without transformer **93**



- Universal
- Universal EMPTY / DSC-EMPTY

Empty – without transformer – GRADE 3 **94**



- SATEL

Enclosures for alarm control panels Flush-mounted

Empty – without transformer **94**



- Universal

Enclosures for expanders Surface-mounted

Standard **95**



- Universal
- SATEL

GRADE 3 **95**



- Universal
- SATEL

Enclosures for keypads

96



- surface-mounted
- flush-mounted

Enclosures for GSM transmitters

97



- GSM

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Enclosures for Access Control Systems

98



- BOSCH
- Nedap

Enclosure for VAS (Voice Alarm Systems)

100



- enclosure for loudspeaker line supervision system by BOSCH

Enclosures for batteries

101



- surface mounted
- DIN rail mounted

Enclosures for power supply units

102



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

Enclosures for CCTV recorders

103



- horizontal
- vertical
- vertical – with space for monitor
- vertical – with switch/monitor space – RACK 19"

Enclosures with DIN rails

107



- surface-mounted

Metal enclosures – hermetic IP66

108



- universal
- with mounting plate
- accessories

Teletechnical enclosures

109



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

Fire protection installation boxes

111



- straight-through boxes
- distribution boxes
- distribution boxes protected by fuses

Others

110



- enclosure with cable frame

Plastic enclosures – hermetic IP65

112



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

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RACK 19" cabinets

RWA series – wall mounted, ready-to-assemble

114



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

RW series – wall mounted, fully assembled

115



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

RWD series – double section – fully assembled

116



- 600 × 600
- 6U / 9U / 12U

RS series – floor standing, ready-to-assemble

117



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

ZRS series – floor standing, fully assembled

118



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

Accessories for RACK 19" cabinets

Enclosure for alarm control panel – vertical

119



- mounting dimensions:
 - 19"×7U

Enclosures for alarm control panel – horizontal, sliding

120



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

ARAD...N / ARAD...SN enclosures

121



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

Drawers

122



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

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Accessories for RACK 19" cabinets

Enclosures with DIN rail	123
 • mounting dimensions: ◦ 19"×3U ◦ 19"×4U	
Battery enclosures	129
 • mounting dimensions: ◦ 19"×2U	
Fixed shelves, sliding shelves	124
 • mounting dimensions: ◦ 19"×1U ◦ 19"×2U	
Sliding rails	125
 • constant • sliding	
Patch panels – Cat. 5e and 6 – UTP / FTP	126
 • mounting dimensions: ◦ 19"×1U	
Fans	127
 • mounting dimensions: ◦ 19"×1U	
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 • mounting dimensions: ◦ 19"×1U	
Thermostats	128
 • mounting dimensions: ◦ 19"×1U	
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 • mounting dimensions: ◦ 19"×1U	
Lighting	129
 • mounting dimensions: ◦ 19"×1U	

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Accessories for RACK 19" cabinets

Blanking panels

129



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

Patch panel frames

130



- mounting dimensions:
 - 19"×1U

Cable management panels

130



- mounting dimensions:
 - 19"×1U

Brush grommets

131



- mounting dimensions:
 - 19"×1U

Tampers – tampering protectors

131



Grounding wires

132



Plinths

132



Casters, leveling feet

133



Locks, screws

133



Other accessories

134



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 8000m².

Our company employs more than 200 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.

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

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

SICUREZZA 2023 – ITALY



SECTECH 2023 – SWEDEN



SECUREX 2023 – SOUTH AFRICA



ENERGETAB 2023 – POLAND



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



- multi-output
- with battery backup
- hermetic
- 24 V AC

Metal enclosures with DIN rail



- with DIN rails
- with DIN rails / RACK profiles

PoE switches



- standard
- for DIN rails / industrial
- with RACK 19" brackets

Teletechnical enclosures



- universal for households
- universal with plywood

Power supply systems for PoE switches



- SWS series
- SWB series
- SWR series
- SWSH series
- SWBH series
- enclosures with recorder space

RACK 19" cabinets and accessories



- wall mounted cabinets
- floor standing cabinets
- PoE switches
- enclosures
- others

Modules



- power supplies with battery backup
- DC/DC voltage converters
- voltage reducers
- fuse modules
- protection modules
- time modules

Power supply units with battery backup



- universal: 13,8 V DC / 27,6 V DC / 54 V DC
- compliant with EN50131-6 standard for alarm systems
- certified with EN54-4 standard for fire detection
- Compliant with EN60839-11 standard

AC/AC transformer



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

Power supply units



- enclosed
- 24 V AC
- 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



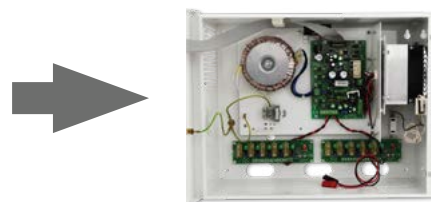
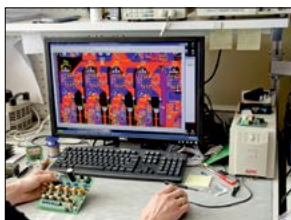
Available on request (OEM / ODM)

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



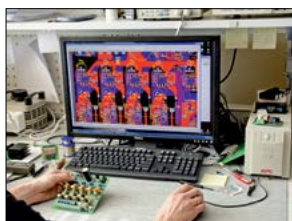
Power supplies & Electronics



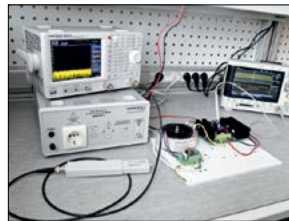
Design Department

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.

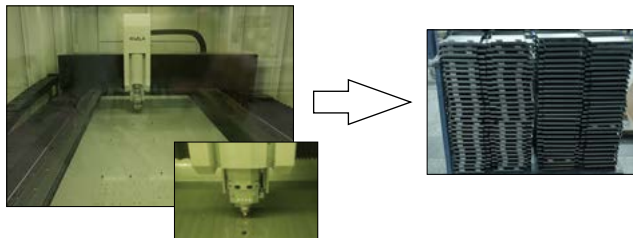
This is proven by valid CE certificates and certificates confirming equipment compliance with EN 50131 standard for alarm systems issued for selected products. High functional and technical quality is proven by our clients' opinions. Having obtained quality management system certificate ISO 9001, our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



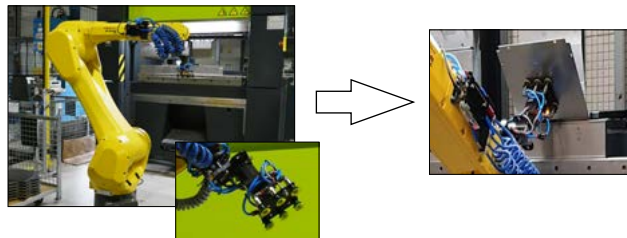
Machinery stock

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:

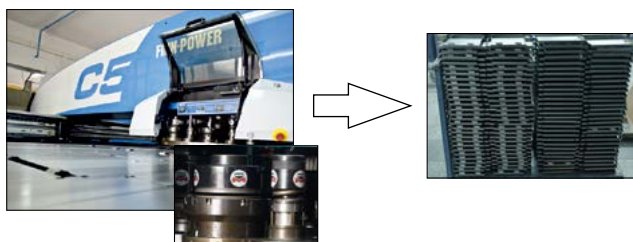
Lasser cutter



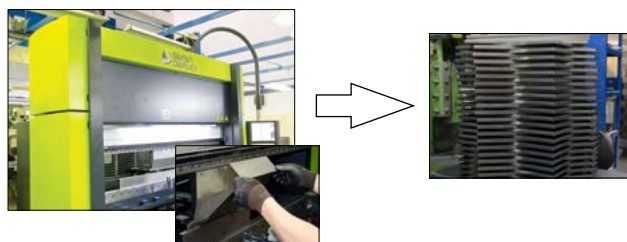
Industrial robot



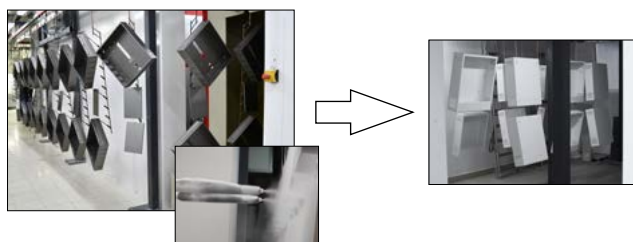
FINN-POWER numerical cutters



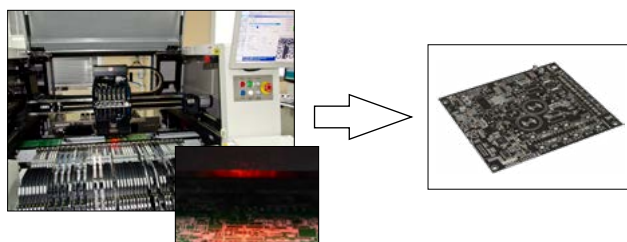
Press brakes, eccentric



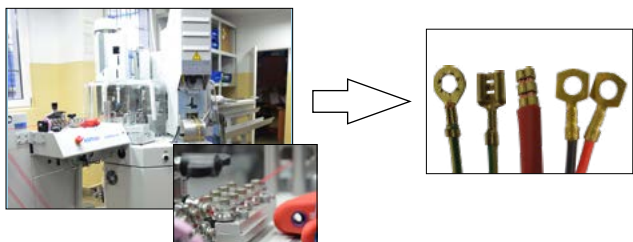
Powder coating line



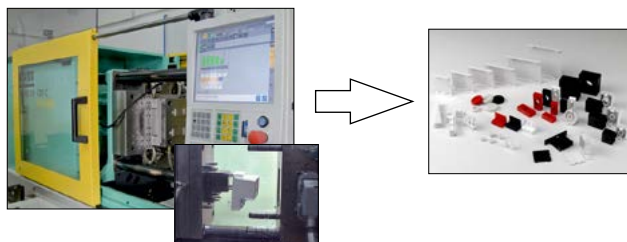
SMD (Surface Mounted Devices) assembly stations



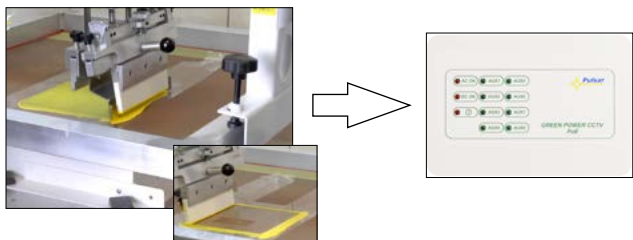
Wire processing machine



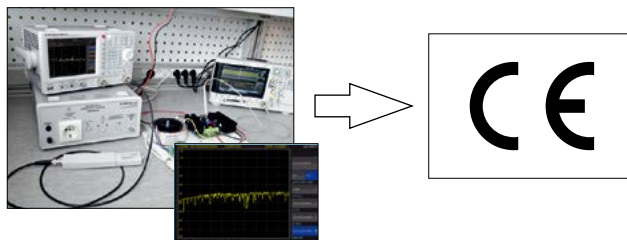
Injection moulding machines



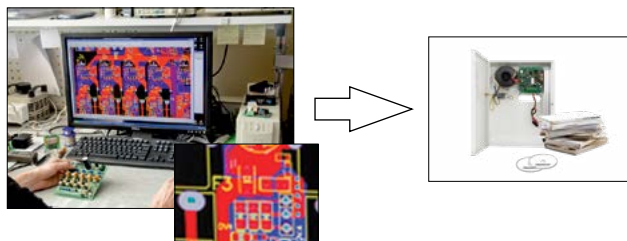
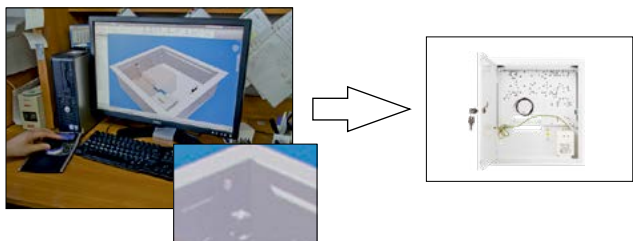
Screen printing



EMC laboratory



Design software: CAD "INVENTOR", ALTIUM DESIGNER



Switch mode power supply units with battery backup 13,8 V DC / 27,6 V DC / 54 V DC

HPSB series

power supply: 200 – 240 V AC
 impulse voltage stabilizer
 deep discharge battery protection (UVP)

protections:

- SCP short circuit protection
- OLP overload protection
- OVP overvoltage protection
- OHP overheat protection *
- surge protection
- anti-sabotage protection (unwanted enclosure opening)

• notes:

- surface mounted enclosure, closing – screwed (lock assembly possible)

• warranty: 2 years

* depending on model



Sample product:
HPSB-12V7A-C



LED optical indication



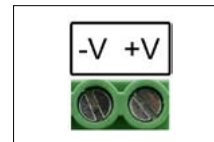
Tamper switch detecting
enclosure opening – 1 piece



Closing – screwed –
2 pieces



Power input
terminals

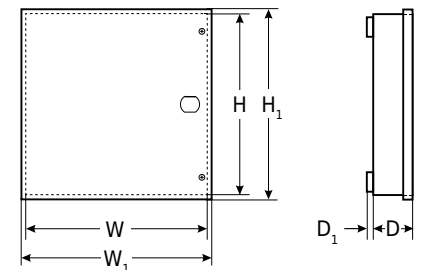


Power output
terminals



Spacers (plastic)
8mm / 14mm

Code	Output voltage	Total output current with charging	Battery charging current	Recommended battery/batteries	Mounting plate	Dimensions W×H×D+D ₁ [± 2mm]
HPSB-12V2A-B	13,8 V DC	2,5A	0,5A	7Ah	—	175×185×82+8
HPSB-12V3A-B		3,5A	0,5A	7Ah	—	205×237×82+8
HPSB-12V3A-C		3,5A	0,5A	17Ah	—	237×305×82+8
HPSB-12V5A-C		5,5A	0,5A / 1A	17Ah	—	
HPSB-12V7A-C		7A	1A / 2A	17Ah	BM2	305×305×105+8
HPSB-12V7A-D		7A	1A / 2A	40Ah	BM1	335×385×173+14
HPSB-12V10A-C		10A	1A / 4A	17Ah	BM2	305×305×105+8
HPSB-12V10A-D		10A	1A / 4A	40Ah	BM1	335×385×173+14
HPSB-12V15A-D		15A	2A / 4A	40Ah	BM1	
HPSB-12V20A-E		20A	2A / 4A / 8A	65Ah	BM1	465×395×173+14
HPSB-24V2A-B	27,6 V DC	2,2A	0,2A / 0,5A	2× 7Ah	—	237×305×82+8
HPSB-24V3A-B		3,5A	0,5A / 1A	2× 7Ah	BM2	305×305×105+8
HPSB-24V3A-C		3,5A	0,5A / 1A	2× 17Ah	BM1	335×385×173+14
HPSB-24V5A-C		5A	0,5A / 2A	2× 17Ah	BM1	
HPSB-24V5A-D		5A	0,5A / 2A	2× 40Ah	BM1	465×395×173+14
HPSB-24V7A-C		7A	1A / 2A	2× 17Ah	BM1	
HPSB-24V10A-C		10A	1A / 2A / 4A	2× 17Ah	BM1	335×385×173+14
HPSB-24V10A-D		10A	1A / 2A / 4A	2× 40Ah	BM1	
HPSB-48V3A-B	54 V DC	3A	0,5A / 1A	4× 7Ah	BM1	335×385×173+14
HPSB-48V5A-C		5A	0,5A / 1A / 2A	4× 17Ah	BM1	465×395×173+14



Accessories:



BM1 / BM2
Mounting plate



Power supply units with battery backup 13,8 V DC switch mode, ABS enclosure IP44 HPSBH series

- supply voltage: 200 – 240 V AC
- impulse voltage stabilizer
- deep discharge battery protection (UVP)
- ABS enclosure – IP44
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- possibility of pole mounting (requires OZB3 adapter)
- warranty: 2 years



Closing – screwed – 4 pieces



Ventilation cover – 2 pieces



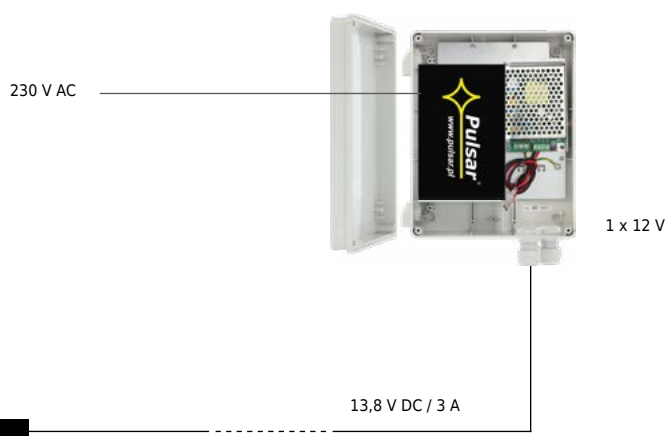
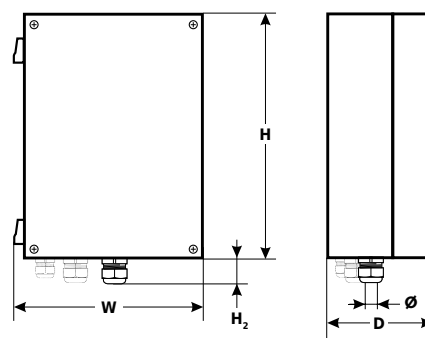
Cable glands



Battery connectors

Code	Output voltage	Total output current with charging	Battery charging current	Recommended battery	Enclosure dimensions W×H×D [± 2mm]	Number of cable glands / cable diameter
HPSBH-12V3A-B	13,8 V DC	3,5A	0,5A	7Ah	210×248×95	2 pc. / 10 – 14mm

Accessories:



Receiver e.g.:



Accessories e.g.:



Switch mode power supply units with battery backup 13,8 / 27,6 V DC

Compliant with EN50131-6 standard for alarm systems – GRADE 1, 2

Compliant with EN60839-11 standard for access control

HPSG2 series

- power supply: 200 – 240 V AC
- impulse voltage stabilizer
- compliance with norm EN50131-6 in grade 1, 2 and II environment class
- compliance with norm EN60839-11
- automatic battery test
- technical outputs relay type:
 - EPS – 230 V power failure AC
 - APS – battery failure
- function START allows running PSU from battery circuit
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - anti-sabotage protection (unwanted enclosure opening)
- warranty: 2 years



Sample product:
HPSG2-12V7A-C



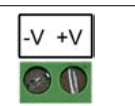
LED optical
indication



Tamper switch
detecting enclosure
opening – 1 piece



Power input
terminals



Power output
terminals



START button

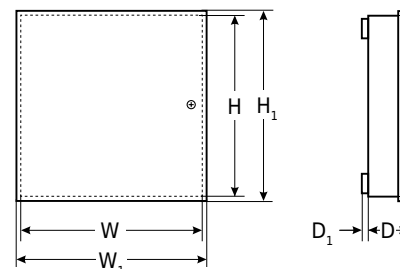


Technical outputs (relay type)



Spacers (plastic)
– 8mm / 14mm

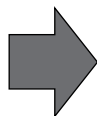
Code	Output voltage	Total output current with charging	Battery charging current	Recommended battery/batteries	Mounting plate	Dimensions W×H×D+D ₁ [±2mm]
HPSG2-12V2A-B	13,8 V DC	2,5A	0,5A / 1A	7Ah	—	205×237×82+8
HPSG2-12V3A-C		3,5A	0,5A / 1A	17Ah	—	237×305×82+8
HPSG2-12V5A-C		5A	1A / 2A	17Ah	—	
HPSG2-12V7A-C		7A	1A / 2A	17Ah	—	
HPSG2-12V7A-D		7A	1A / 2A	40Ah	BM1	335×385×173+14
HPSG2-12V10A-D		10A	1A / 4A	40Ah	BM1	
HPSG2-12V20A-E		20A	2A / 4A / 8A	65Ah	BM1	465×395×173+14
HPSG2-24V2A-B	27,6 V DC	2,5A	0,5A / 1A	2× 7Ah	—	237×305×82+8
HPSG2-24V3A-B		3,5A	0,5A / 1A	2× 7Ah	BM2	305×305×105+8
HPSG2-24V3A-C		3,5A	0,5A / 1A	2× 17Ah	BM1	
HPSG2-24V5A-C		5A	1A / 2A	2× 17Ah	BM1	335×385×173+14
HPSG2-24V5A-D		5A	1A / 2A	2× 40Ah	BM1	
HPSG2-24V10A-C		10A	1A / 2A / 4A	2× 17Ah	BM1	335×385×173+14
HPSG2-24V10A-D		10A	1A / 2A / 4A	2× 40Ah	BM1	
HPSG2-24V10A-D		10A	1A / 2A / 4A	2× 40Ah	BM1	465×395×173+14



Accessories:



BM1 / BM2
Mounting plate



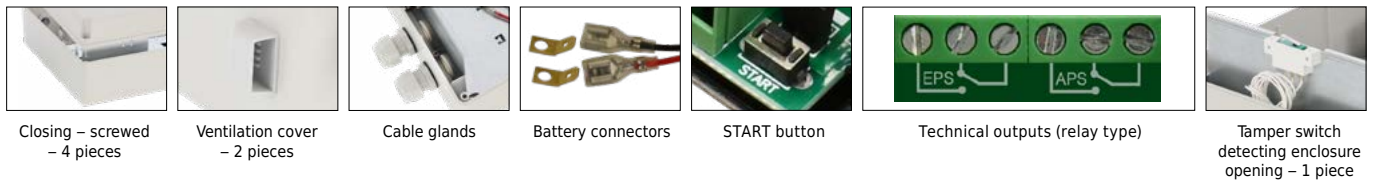
Power supply units with battery backup 13,8 V DC, ABS enclosure IP44

Compliant with EN50131-6 standard for alarm systems – GRADE 1, 2

Compliant with EN60839-11 standard for access control

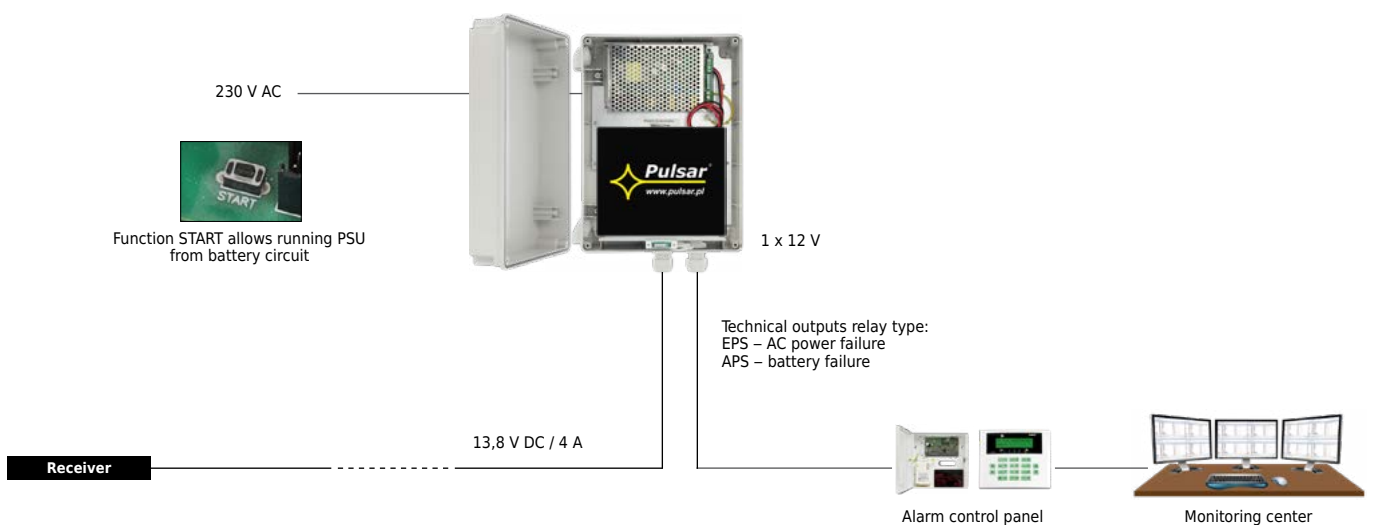
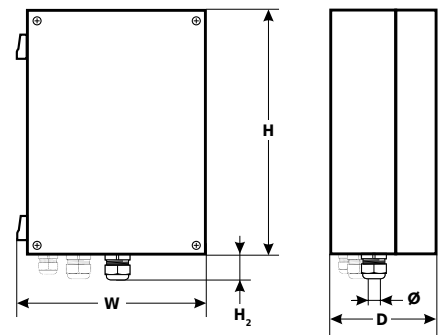
HPSG2H series

- supply voltage 200 – 240 V AC
- impulse voltage stabilizer
- compliance with norm EN50131-6 in grade 1, 2 and II environment class
- compliance with norm EN60839-11
- technical outputs relay type:
 - EPS – 230 V power failure AC
 - APS – battery failure
- function START allows running PSU from battery power
- deep discharge battery protection (UVP)
- ABS enclosure – IP44
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP overvoltage protection, surge protection
 - antisabotage protection (unwanted enclosure opening)
- possibility of pole mounting (requires OZB4 adapter)
- warranty: 2 years



Code	Output voltage	Total output current with charging	Battery charging current	Recommended battery	Enclosure dimensions W×H×D [± 2mm]	Number of cable glands / cable diameter
HPSG2H-12V5A-C	13,8 V DC	5A	1A / 2A	17Ah	238×308×130	2 pc. / 10 – 14mm

Accessories:



Receiver e.g.:



Accessories e.g.:



Multi-output switch mode power supply units with battery backup 13,8 V DC

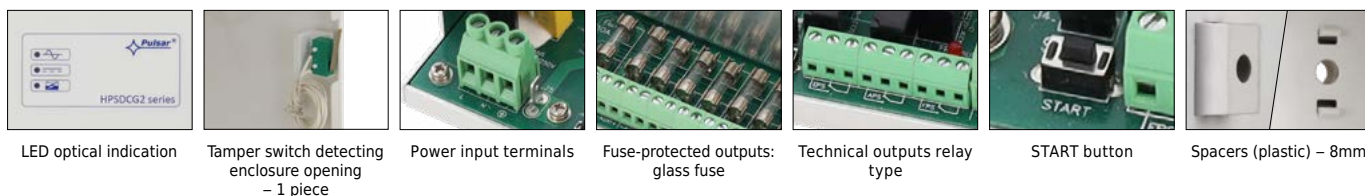
compliant with EN50131-6 standard for alarm systems – GRADE 1, 2
compliant with EN60839-11 standard for access control systems

HPSDCG2 series

- power supply: 200 – 240 V AC
- impulse voltage stabilizer
- compliance with norm EN50131-6 in grade 1, 2 and II environment class
- compliance with norm EN60839-11
- LED optical indication
- dynamic battery test
- battery voltage control
- function START allows running PSU from battery circuit
- technical outputs relay type:
 - EPS technical output indicating AC power loss
 - APS technical output indicating battery failure
 - FPS technical output indicating fuse failure
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- warranty: 2 years

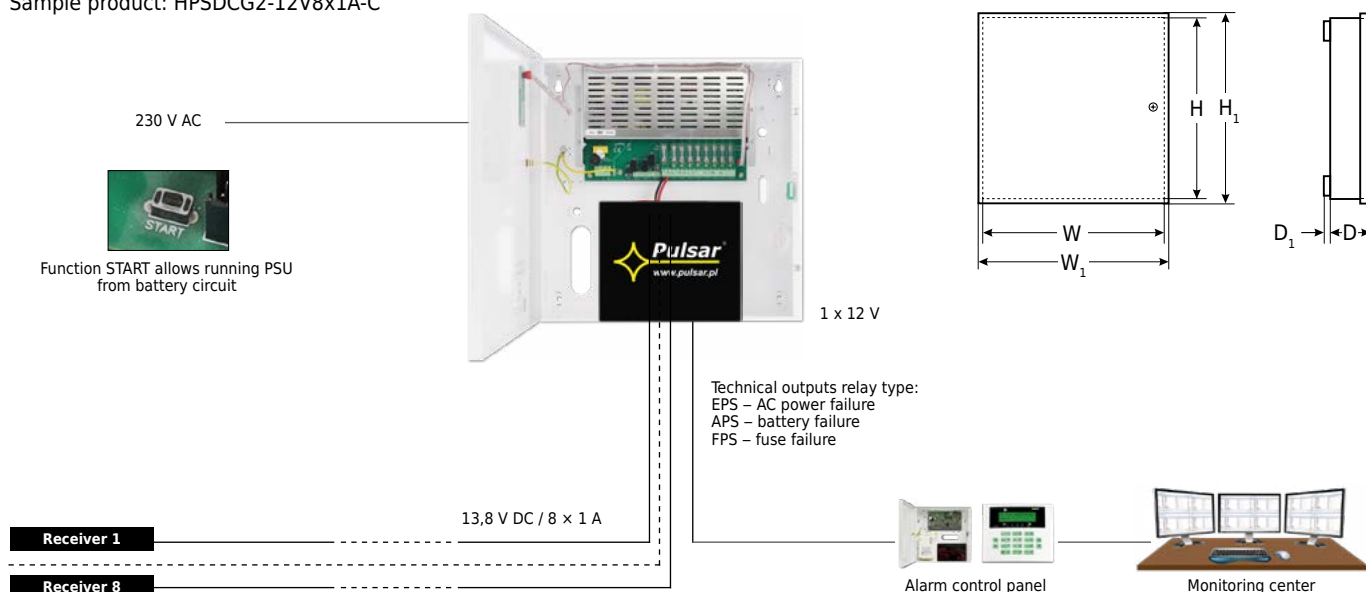


Sample product:
HPSCDG2-12V8x1A-C



Code	Output voltage	Total output current with charging	Number of outputs	Battery charging current	Recommended battery	Fuse type	Technical output	Dimensions W×H×D+D ₁ [± 2mm]
HPSCDG2-12V4x1A-B	13,8 V DC	5A	4×1A	0,5A / 1,0A	7Ah	1,0A – glass fuse	✓	300×258×77+8
HPSCDG2-12V8x1A-C		10A	8×1A	1A / 2A	17Ah		✓	300×300×105+8
HPSCDG2-12V8x1A-D		10A	8×1A	1A / 2A	40Ah		✓	330×380×173+14

Sample product: HPSCDG2-12V8x1A-C



Receiver e.g.:



Accessories e.g.:



Switch mode with transformer power supply units with battery backup – 13,8 V DC / 27,6 V DC

Compliant with EN50131-6 standard for alarm systems – GRADE 1, 2

Compliant with EN60839-11 standard for access control

AWZG2 series

- power supply: 230 V AC
- microprocessor-based automation system
- compliance with norm EN50131-6 in grade 1, 2 and II environment class
- compliance with norm EN60839-11
- automatic battery test
- battery voltages control
- technical outputs OC type:
 - EPS – 230 V power failure AC
 - APS – battery failure indication
- function START allows running PSU from battery circuit
- deep discharge battery protection (UVP)
- possibility of using AWZ639 – technical outputs relay type
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - anti-sabotage protection (unwanted enclosure opening)
- warranty: 5 years



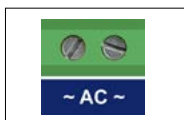
Sample product:
AWZG2-12V2A-B



LED optical indication



Tamper switch
detecting enclosure
opening – 1 piece



Power input
terminals



Power output
terminals



Technical outputs OC
type



START button



Spacers (plastic)
– 8mm / 14mm

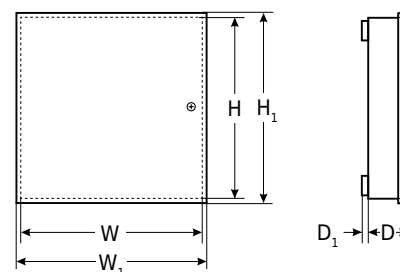
Code	Output voltage	Total output current with charging	Battery charging current	Recommended battery/batteries	Dimensions W×H×D+D ₁ [± 2mm]
AWZG2-12V2A-B	13,8 V DC	2A	0,2A / 0,5A	7Ah	205×237×82+8
AWZG2-12V3A-C		3A	0,5A / 1A	17Ah	235×305×82+8
AWZG2-12V5A-C		5A	0,5A / 1A / 2A	17Ah	305×305×105+8
AWZG2-12V5A-D		5A	0,5A / 1A / 2A	40Ah	335×385×173+14
AWZG2-24V2A-B	27,6 V DC	2A	0,5A / 1A	2× 7Ah	205×305×82+8
AWZG2-24V3A-C		3A	0,5A / 1A	2× 17Ah	335×385×173+14

Accessories:



AWZ642

Technical outputs – relay
3× OC → 3× NO/NC/C



Switch mode power supply units with battery backup 13,8 / 27,6 V DC

Compliant with EN50131-6 standard for alarm systems – GRADE 1÷3

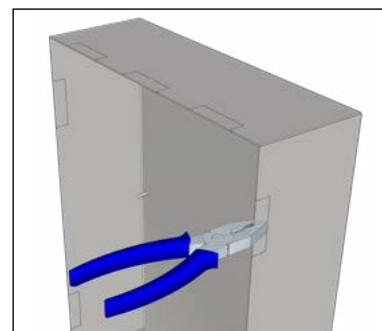
Compliant with EN60839-11 standard for access control

HPSG3 series

- **EN50131-6 compliance in grades 1÷3 and II environmental class**
- **EN60839-11 compliance**
- supply voltage **200 – 240 V AC**
- high efficiency
- low ripple voltage
- microprocessor-based automation system
- measurement of resistance of battery circuit
- automatic temperature compensation of battery charging
- output voltage control
- automatic battery test
- battery circuit continuity control
- battery voltage control
- battery charging and maintenance control
- deep discharge battery protection (UVP)
- battery overcharge protection
- battery output protection against short circuit and reverse connection
- function START allows running PSU from battery circuit
- technical outputs OC type „open collector”
- collective failure input EXT IN
- EPS technical output indicating AC power loss
- PSU technical output indicating PSU failure
- APS technical output indicating battery failure
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP overvoltage protection, surge protection
 - anti-sabotage protection: tamper switches detecting door opening and detachment from mounting surface
- convectional cooling
- **warranty: 3 years**
- **only for LCD version:**
 - **communication: LAN, RS485 – appropriate modules required**
 - **„SERIAL” communication port with implemented MODBUS RTU protocol**



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



Method of breaking out the emboss-
ment for the installation wires



Tamper switch detecting enclosure
opening – 1 piece
Tamper switch detecting detach-
ment from mounting surface
– 1 piece



Power output
terminals



Terminals for battery
connection



Technical outputs



Input of external failure
indication EXT IN



START button



Spacers (plastic)

Switch mode power supply units with battery backup 13,8 / 27,6 V DC

Compliant with EN50131-6 standard for alarm systems – GRADE 1÷3

Compliant with EN60839-11 standard for access control

HPSG3 series



LED display



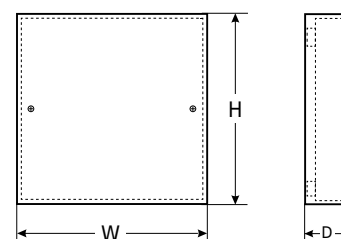
graphic LCD display

Code		Output voltage	Total output current with charging	Battery charging current	Recommended battery/batteries	Dimensions W×H×D [+/- 2mm]
LED panel	LCD panel					
HPSG3-12V3A-C	HPSG3-12V3A-C-LCD	13,8 V DC	3,5A	0,8A	17Ah	314×408×110
HPSG3-12V5A-C	HPSG3-12V5A-C-LCD		5,5A	0,8A	17Ah	
HPSG3-12V5A-D	HPSG3-12V5A-D-LCD		5,5A	1,8A	40Ah	314×408×190
HPSG3-12V10A-E	HPSG3-12V10A-E-LCD		10A	2,6A	65Ah	414×407×190
HPSG3-24V2A-C	HPSG3-24V2A-C-LCD	27,6 V DC	2,5A	0,8A	2× 17Ah	314×408×190
HPSG3-24V5A-D	HPSG3-24V5A-D-LCD		5A	1,8A	2× 40Ah	414×408×190

Accessories:

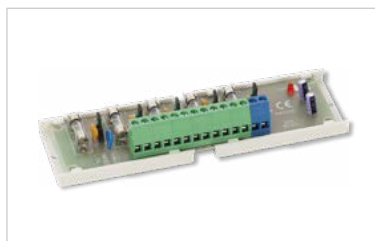


Interfaces (LAN, RS485)



AWZ642

Technical outputs – relay
3× OC → 3× NO/NC/C



AWZ536

LB5/5×0,5A/2,5/AW fuse module



Web application (free)
„PowerSecurity”

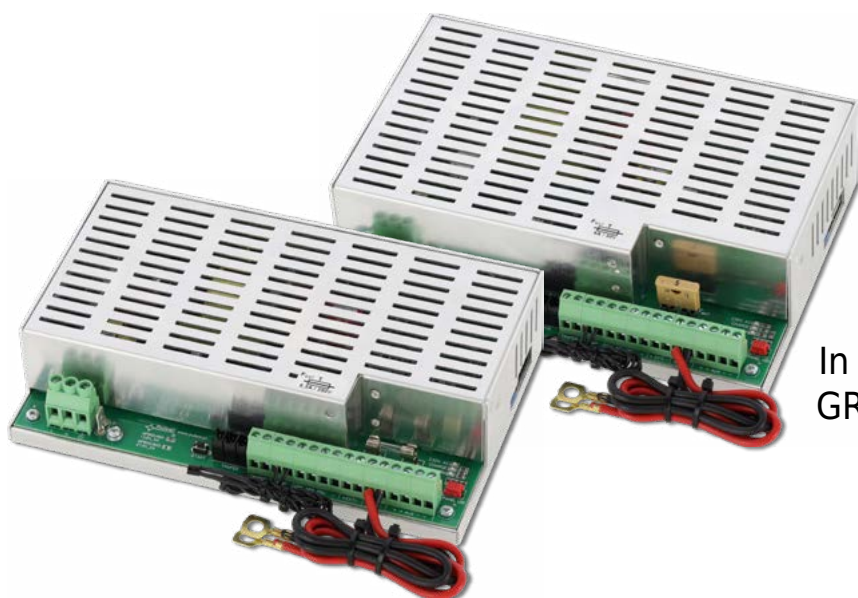
Switch mode power supply modules with battery backup 13,8 / 27,6 V DC

Compliant with EN50131-6 standard for alarm systems – GRADE 1÷3

Compliant with EN60839-11 standard for access control

PSG3 series

- **EN50131-6 compliance in grades 1÷3 and II environmental class**
- **EN60839-11 compliance**
- supply voltage 200 – 240 V AC
- high efficiency
- low ripple voltage
- microprocessor-based automation system
- measurement of resistance of battery circuit
- automatic temperature compensation of battery charging
- output voltage control
- automatic battery test
- battery circuit continuity control
- battery voltage control
- battery charging and maintenance control
- deep discharge battery protection (UVP)
- battery overcharge protection
- battery output protection against short circuit and reverse connection
- function START allows running PSU from battery circuit
- optical indication
- technical outputs OC type „open collector”
- collective failure input EXT IN
- EPS technical output indicating AC power loss
- PSU technical output indicating PSU failure
- APS technical output indicating battery failure
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- convectional cooling
- **warranty: 3 years**



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



Power input terminals



Power output terminals



Terminals for battery connection



Technical outputs



Input of external failure indication EXTI



START button



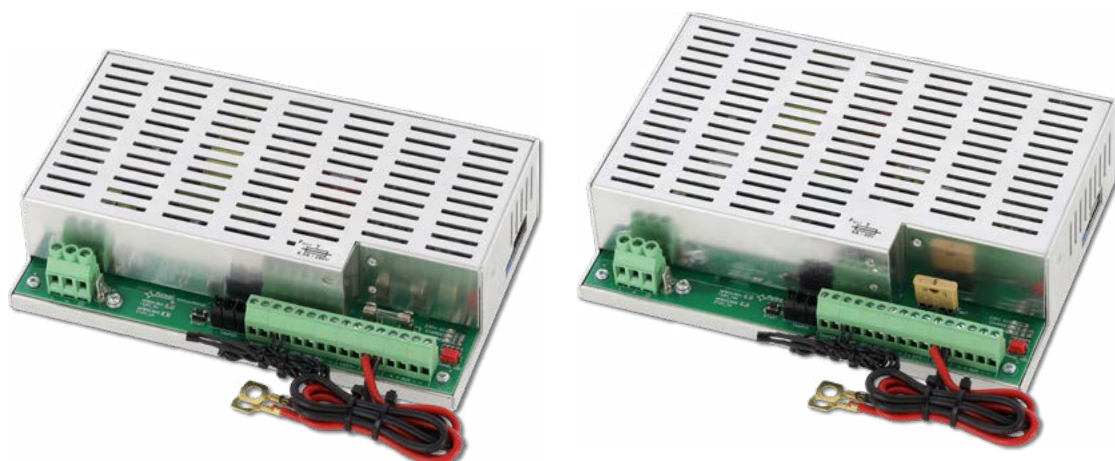
Connector for LED indicators

Switch mode power supply modules with battery backup 13,8 / 27,6 V DC

Compliant with EN50131-6 standard for alarm systems – GRADE 1÷3

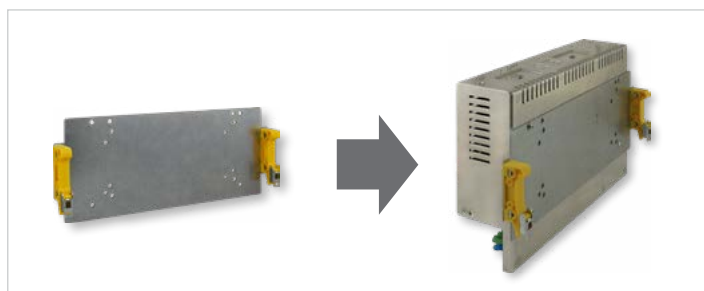
Compliant with EN60839-11 standard for access control

PSG3 series



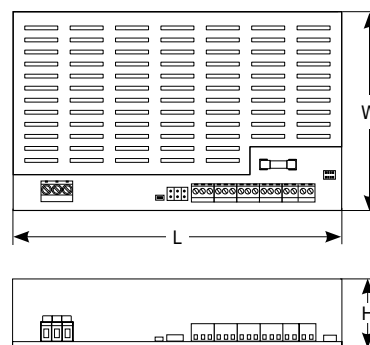
Code	Output voltage	Total output current with charging	Battery charging current	Recommended battery/batteries	Adapter DIN	Dimensions LxWxH
PSG3-12V2A-B	13,8 V DC	2,5A	0,4A	7Ah	DIN4	200x120x48
PSG3-12V3A-C		3,5A	0,8A	17Ah		
PSG3-12V5A-C		5,5A	0,8A	17Ah		
PSG3-12V5A-D		5,5A	1,8A	40Ah		
PSG3-12V10A-E		10A	2,6A	65Ah		
PSG3-24V2A-C	27,6 V DC	2,5A	0,8A	2× 17Ah	DIN4	200x120x48
PSG3-24V5A-D		5,0A	1,8A	2× 40Ah		204x141x52

Accessories:



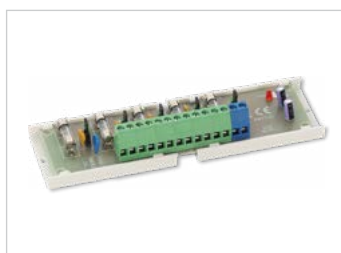
DIN4

Mounting plate for power supplies (allows mounting power supplies on TH35 rail).



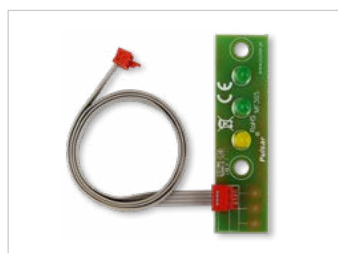
AWZ642

Technical outputs – relay
3× OC → 3× NO/NC/C



AWZ536

LB5/5x0,5A/2,5/AW fuse module

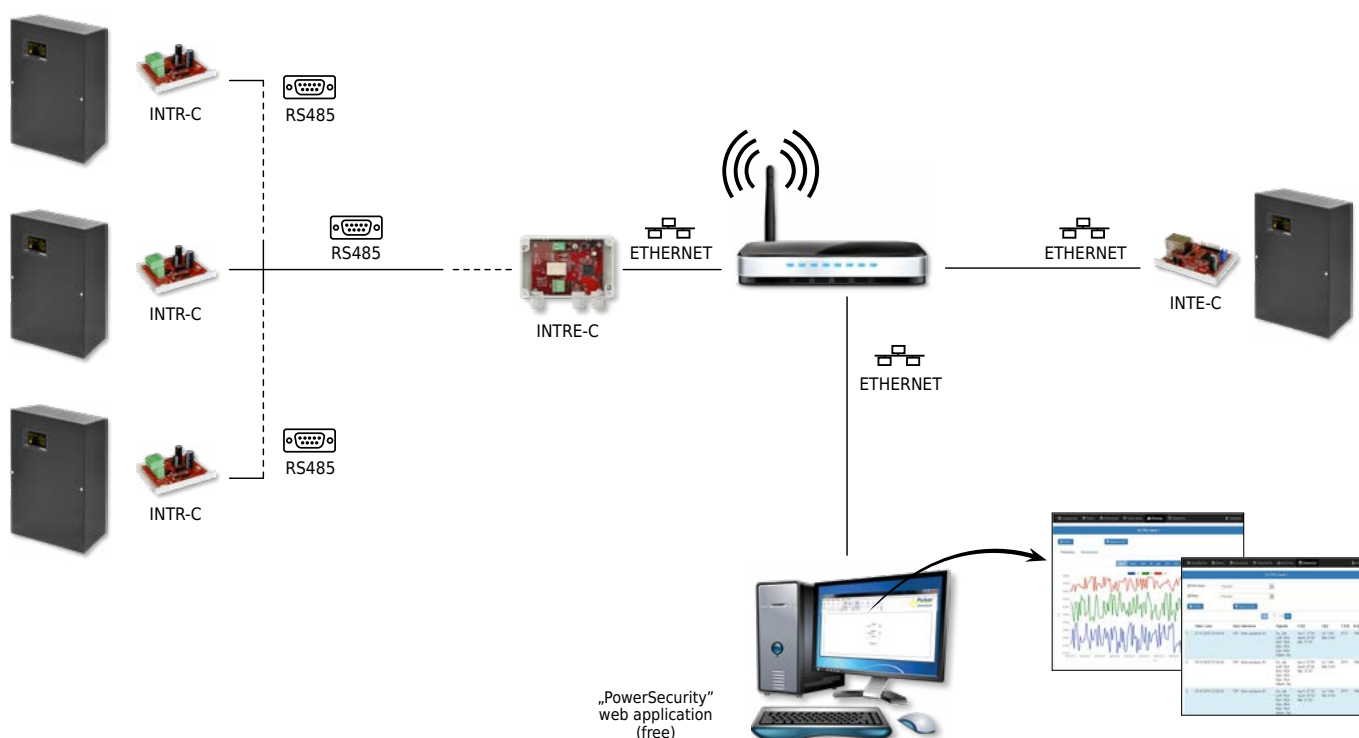
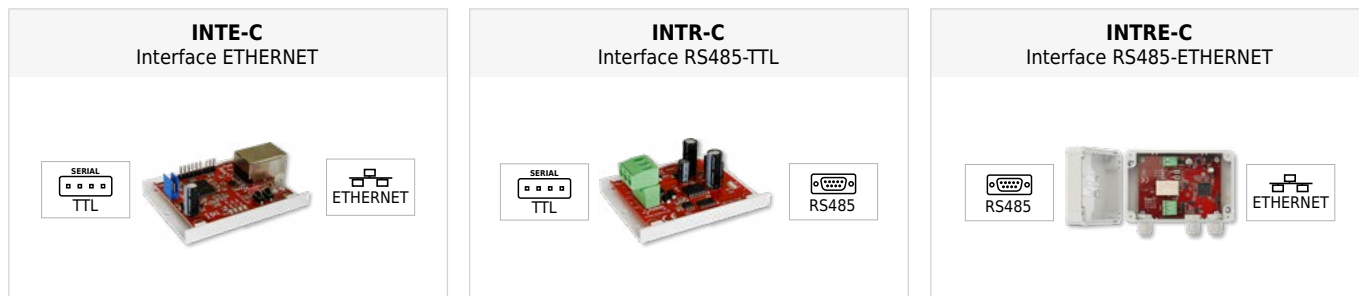


PKAZ168

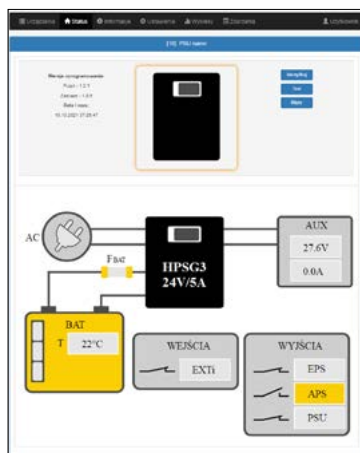
Set for optical indication
(three LEDs indicating status of power supply).

Accessories for power supply units of HPSG3...LCD series

Interfaces



Window of remote access to power supply



Switch mode power supply units with battery backup 27,6 V DC EN54-4 and EN12101-10 certified EN54C series

RED POWER plus

- power supply: 230 V
- impulse voltage stabilizer
- microprocessor based operating control
- **certified with EN54-4 and EN12101-10 standards**
- **certificate of constancy of performance CNBOP-PIB No 1438-CPR-0628**
- **certificate of approval CNBOP-PIB No 5222/2024**
- independently protected outputs AUX1 and AUX2
- monitoring of continuity of battery circuit
- relay type output of collective failure ALARM
- input of external failure indication EXTi
- EPS relay type output of 230 V AC power failure indication
- LoB low battery voltage indication
- deep discharge battery protection (UVP)
- 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 equipment)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - anti-sabotage protection (unwanted enclosure opening)
- warranty: 3 years



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

Certificate of approval
CNBOP-PIB No 5222/2024



Tamper switch detecting enclosure opening
– 1 piece



Lock



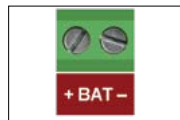
EPS relay type output of 230 V AC power failure indication



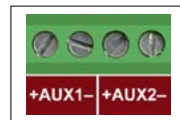
Relay type output of collective failure ALARM



Input of external failure indication EXTi



Battery connectors



Independently protected outputs AUX1 and AUX2

Switch mode power supply units with battery backup 27,6 V DC EN54-4 and EN12101-10 certified EN54C series

RED POWER plus



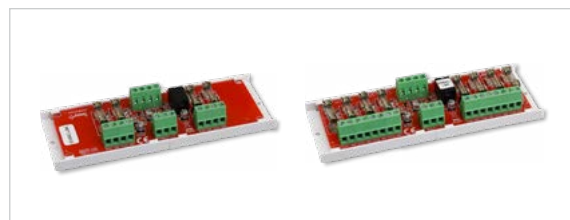
LED display



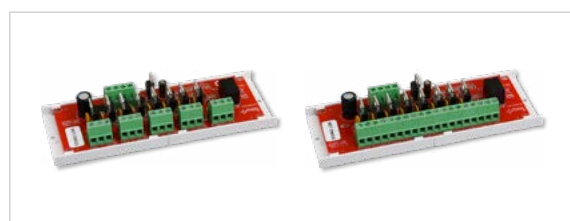
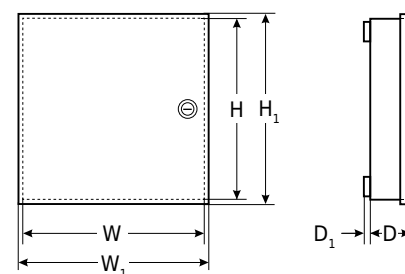
graphic LCD display

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

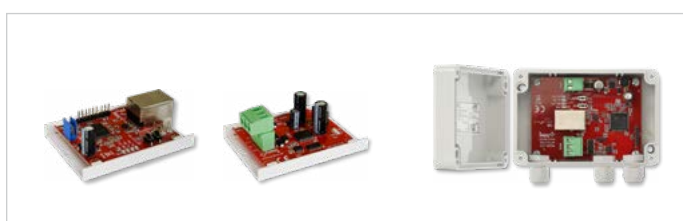
Accessories:



Fuse modules
EN54C-LB4, EN54C-LB8



Sequential modules
EN54C-LS4, EN54C-LS8

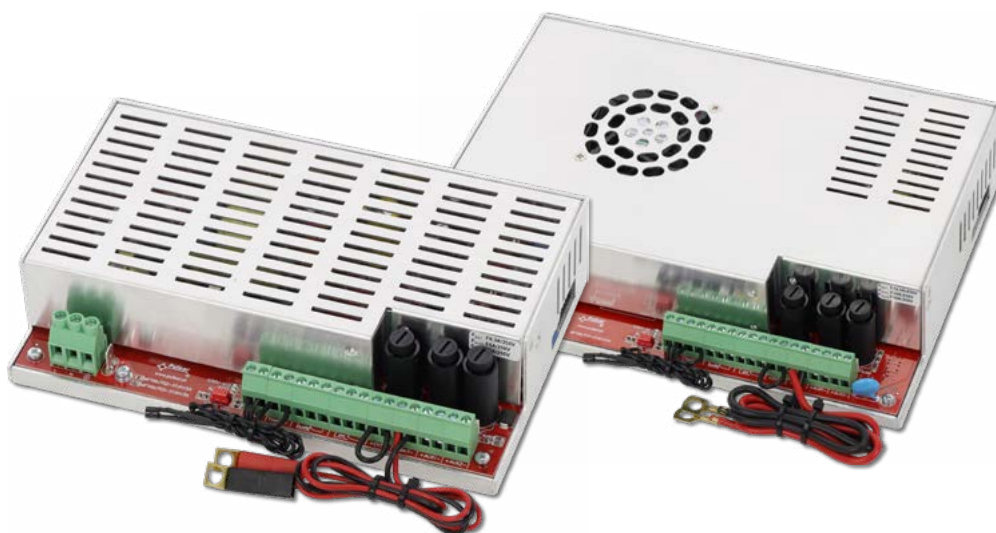


Interfaces (LAN, RS485)
– only for EN54C...LCD series

Switch mode power supply modules with battery backup 27,6 V DC in accordance with EN54-4 standard for fire detection EN54M series

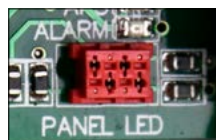
RED POWER plus

- optical indication – EN54M-LED panel (optional)
- power supply: 230 V
- impulse voltage stabilizer
- microprocessor based operating control
- **in accordance 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 type output of collective failure ALARM
- input of external failure indication EXTi
- EPS relay type output of 230 V AC power failure indication
- LoB low battery voltage indication
- deep discharge battery protection (UVP)
- cooperation with EN54-LB4 and EN54-LB8 fuse modules (optional equipment)
- cooperation with EN54C-LS4 and EN54C-LS8 sequential modules (optional equipment)
- DIN rail mounting using EN54M-DIN1 bracket (optional)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- warranty: 3 years



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

To be able to install module of PSU in fire alarm system, it has to 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 optical indication
connector



EPS relay type output of
230 V AC power failure
indication



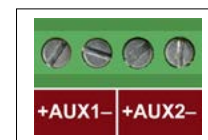
Relay type output of
collective failure ALARM



Input of external failure
indication EXTi



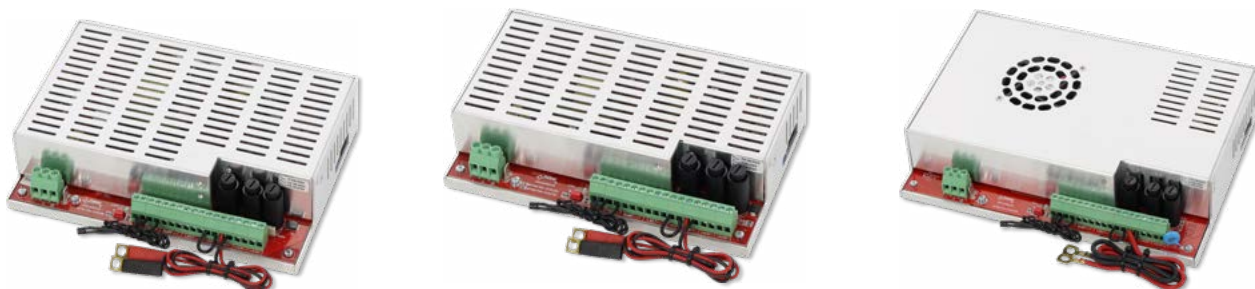
Battery connectors



Independently protected
outputs
AUX1 and AUX2

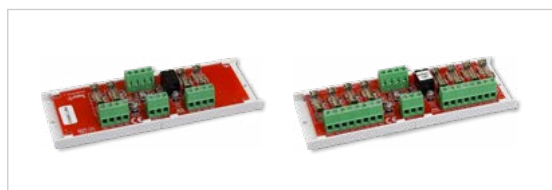
Switch mode power supply modules with battery backup 27,6 V DC in accordance with EN54-4 standard for fire detection EN54M series

RED POWER plus



Code	Output voltage	Total current		Recommended batteries	Dimensions L×W×H [+/- 2mm]
		for continuous operation $I_{max a} + I_{lad}$	for intermittent operation $I_{max a} + I_{lad}$		
EN54M-2A7	27,6 V DC	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-10A7-17		9,2A + 0,8A	10A + 0A	2× 7 – 20Ah	237×168×55
EN54M-10A17-40		8,2A + 1,8A	10A + 0A	2× 17 – 45Ah	
EN54M-10A40-65		7,4A + 2,6A	10A + 0A	2× 40 – 65Ah	

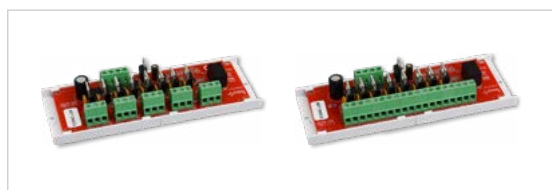
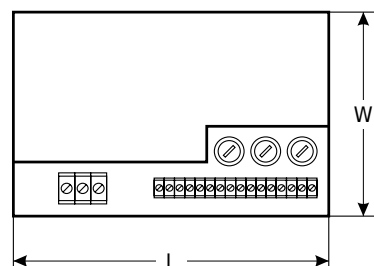
Accessories:



Fuse modules
EN54C-LB4, EN54C-LB8



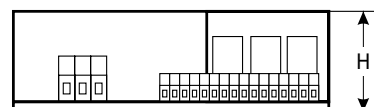
Bracket DIN
EN54M-DIN1



Sequential modules
EN54C-LS4, EN54C-LS8



Set for optical indication
EN54M-LED



Accessories for power supply units EN54C and EN54M series

certified fuse modules,
certified 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

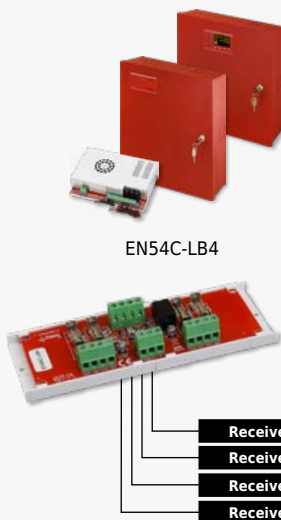


EN54M-LED

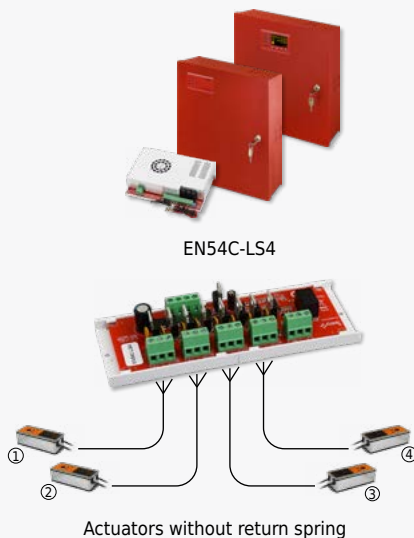
Set for optical indication



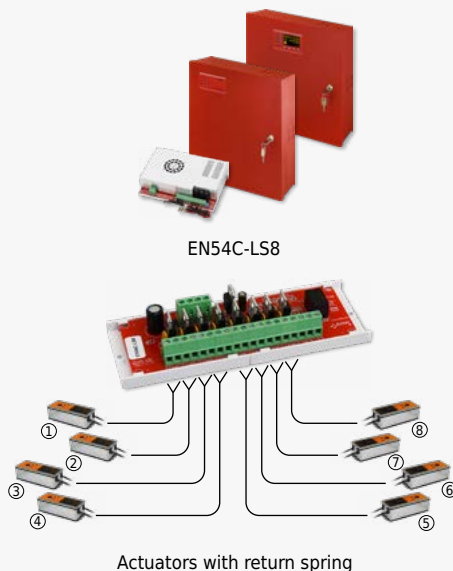
EN54C-LB4



EN54C-LS4



EN54C-LS8



Applies EN54C-...LCD

INTE-C

Interface ETHERNET



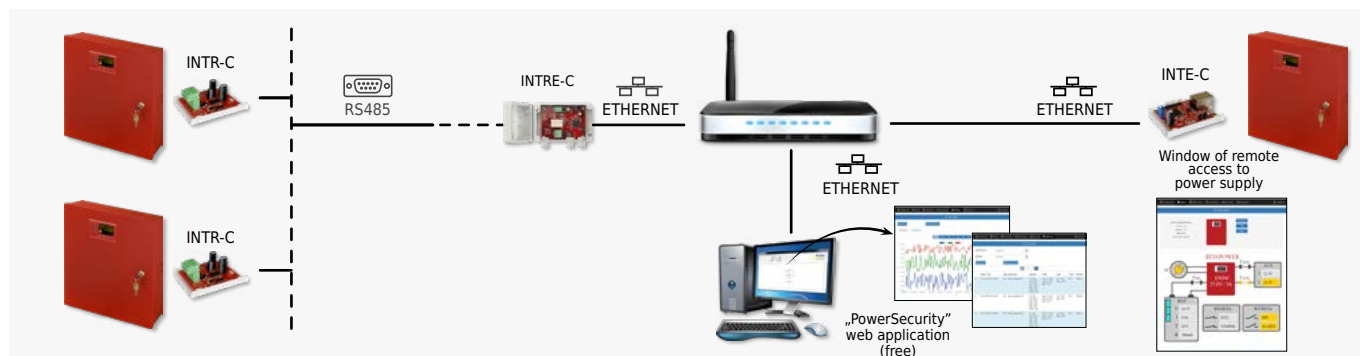
INTR-C

Interface RS485-TTL



INTRE-C

Interface RS485-ETHERNET



Switch mode power supply units with battery backup 13,8 V DC for Access Control Systems – DAHUA AWZ series

- power supply: 200 – 240 V AC
- impulse voltage stabilizer
- deep discharge battery protection (UVP)
- technical outputs relay type:
 - EPS – AC power failure
 - APS – battery 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
 - anti-sabotage protection
- dedicated to mounting controllers:
 - DAHUA ASC2104B-T, ASC2102B-T (and similar)
- warranty: 2 years



LED optical indication



Tamper switch detecting enclosure opening – 1 piece



Closing – screwed – 2 pieces

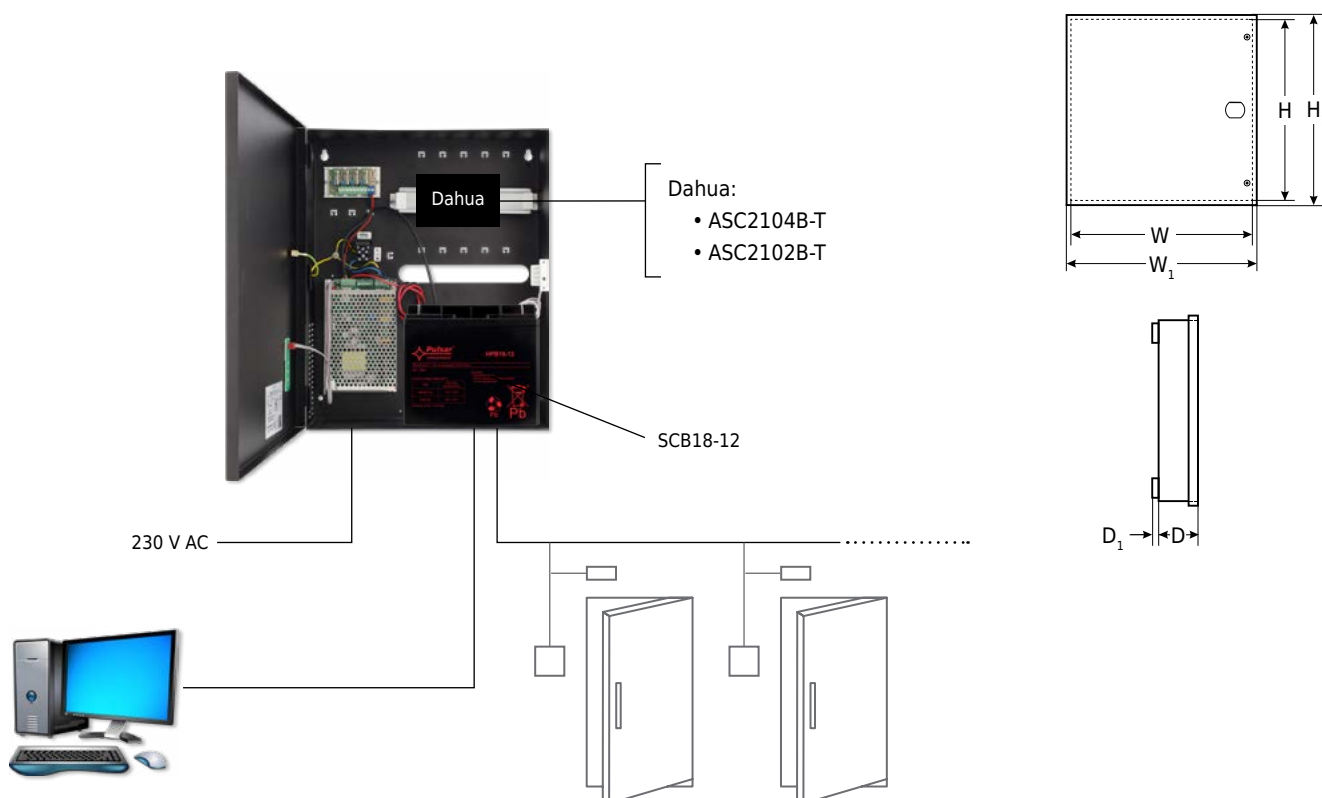


Technical outputs (relay type)



Spacers (plastic) – 8mm

Code	Output voltage	Total output current with charging	Battery charging current	Recommended battery	Number of DIN rails / length / number of „S” fields	Dimensions W×H×D+D ₁ [± 2mm]
AWZ637	13,8 V DC	7A	1,0A / 2,0A	17Ah	1 / 185mm / 10	320×397×92+8



12V Batteries

Maintenance Free Batteries

HPB series



designed
lifetime 5÷8 years

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

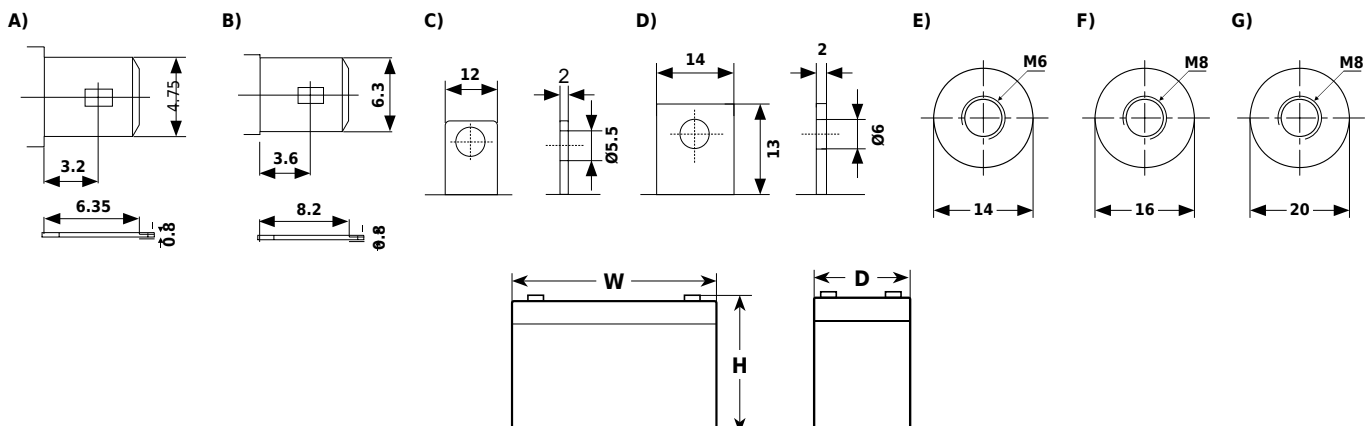
SCB series



designed
lifetime 3÷5 years

- dedicated for:
 - Security systems (CCTV, AC, IDS)
 - UPS power supply
 - automation

	Code	Output voltage	Rated capacity (C ₂₀)	Connectors	Charging current		Charging voltage in 25°C		Dimensions W×H×D [÷2mm]
					recommended	maximum	Backup operation	Cyclic operation	
HPB series	HPB1,2-12	12 V DC	1,2Ah	A	0,13A	0,36A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	98×59×44
	HPB2,3-12	12 V DC	2,3Ah	A	0,23A	0,69A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	178×68×35
	HPB3,6-12	12 V DC	3,6Ah	A	0,36A	1,08A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	133×65×65
	HPB5-12	12 V DC	5Ah	A	0,5A	1,5A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	90×106×70
	HPB7-12	12 V DC	7Ah	A	0,7A	2,1A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	152×100×65
	HPB9-12	12 V DC	9Ah	B	0,9A	2,7A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	152×100×65
	HPB9-12-4,8	12 V DC	9Ah	A	0,9A	2,7A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	152×100×65
	HPB12-12	12 V DC	12Ah	B	1,2A	3,6A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	150×100×98
	HPB12-12-4,8	12 V DC	12Ah	A	1,2A	3,6A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	150×100×98
	HPB18-12	12 V DC	18Ah	C	1,8A	5,4A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	182×168×77
	HPB28-12	12 V DC	28Ah	D	2,6A	7,8A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	175×125×166
	HPB40-12	12 V DC	40Ah	E	4A	12A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	197×171×166
	HPB55-12	12 V DC	55Ah	E	5,5A	16,5A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	229×211×138
	HPB65-12	12 V DC	65Ah	E	6,5A	19,5A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	349×178×167
	HPB80-12	12 V DC	80Ah	F	8A	24A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	269×215×168
	HPB100-12	12 V DC	100Ah	F	10A	30A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	330×219×171
SCB series	HPB120-12	12 V DC	120Ah	F	12A	36A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	409×234×175
	HPB160-12	12 V DC	160Ah	G	16A	48A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	524×222×238
	SCB7-12	12 V DC	7Ah	A	0,7A	2,1A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	152×100×65
	SCB18-12	12 V DC	18Ah	C	1,8A	5,4A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	182×168×77
	SCB40-12	12 V DC	40Ah	E	4A	12A	13,5 V DC – 13,8 V DC	14,4 V DC – 14,9 V DC	197×171×166

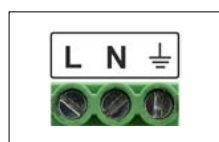


Enclosed switch mode power supply units 12 V DC / 48 V DC PS series

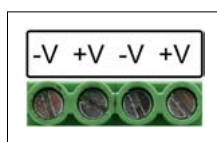
- power supply: 200 – 240 V AC
- impulse voltage stabilizer
- adjustable output voltage
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- possibility of mounting power supplies on TH35 rail (required mounting plate)
- warranty: 2 years



Sample product:
PS-12V10A



Power input
terminals



Power output
terminals



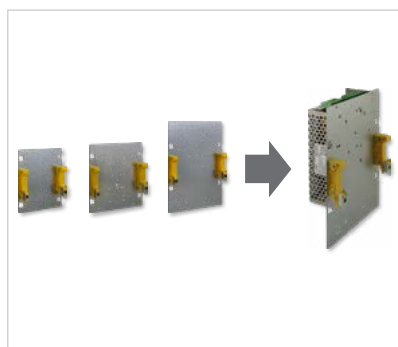
Potentiometer for output
voltage adjustment



Enclosure:
perforated sheet
– convectional cooling

Code	Output voltage	Voltage adjustment	Output current	DIN adapter	Enclosure		Dimensions L×W×H [+/- 2mm]
					AWO384	AWO385	
PS-12V2A	12 V DC	12 – 15 V DC	2A	DIN1 / DIN2	✓	✓	85×60×37
PS-12V3A		12 – 15 V DC	3A	DIN1 / DIN2	✓	✓	110×78×36
PS-12V7A		12 – 15 V DC	7A	DIN3	✓	✓	159×98×42
PS-12V10A		12 – 15 V DC	10A	DIN3	—	✓	199×110×50
PS-12V15A		12 – 15 V DC	15A	DIN3	—	✓	214×114×50
PS-48V1A	48 V DC	48 – 53 V DC	1,2A	DIN2	✓	✓	129×98×40
PS-48V3A		48 – 53 V DC	3A	DIN3	—	✓	199×110×50

Accessories:



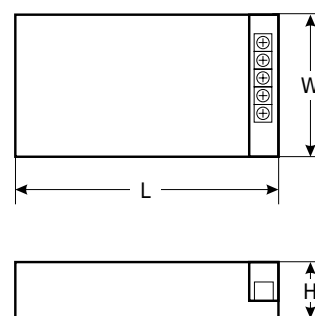
DIN1 / DIN2 / DIN3

Mounting plate (allows mounting power
supplies on TH35 rail)



AWO384 / AWO385

Enclosures for enclosed power supplies



Enclosed switch mode power supply units with battery backup

13,8 V DC / 27,6 V DC / 54 V DC

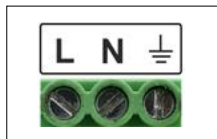
PSB series

- power supply: 200 – 240 V AC
- impulse voltage stabilizer
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - OHP overheat protection *
- possibility of mounting power supplies on TH35 rail (required mounting plate)
- warranty: 2 years

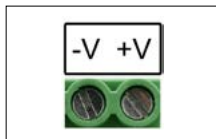
* depending on model



Sample product:
PSB-12V7A



Power input terminals



Power output terminals



Optical indication connector



Battery connectors



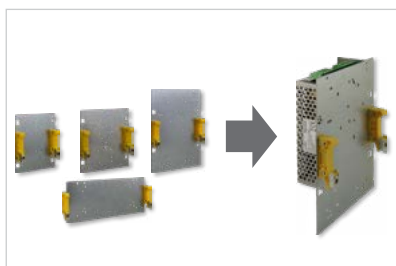
Enclosure: perforated sheet – convectional cooling



Fan – Forced cooling *

Code	Output voltage	Total output current with charging	Battery charging current	DIN adapter	Dimensions L×W×H [± 2mm]
PSB-12V2A	13,8 V DC	2,5A	0,5A	DIN1 / DIN2	110×78×36
PSB-12V3A		3,5A	0,5A	DIN1 / DIN2	
PSB-12V5A		5,5A	0,5A / 1A	DIN2	129×98×40
PSB-12V7A		7,0A	1A / 2A	DIN3	159×98×42
PSB-12V10A		10A	1A / 4A	DIN3	199×110×50
PSB-12V15A		15A	2A / 4A	DIN3 / DIN4	214×114×50
PSB-12V20A		20A	2A / 4A / 8A	DIN4	237×168×54
PSB-24V2A	27,6 V DC	2,2A	0,2A / 0,5A	DIN2	129×98×40
PSB-24V3A		3,5A	0,5A / 1A	DIN3	159×98×42
PSB-24V5A		5,0A	0,5A / 2A	DIN3	199×110×50
PSB-24V7A		7,0A	1A / 2A	DIN3 / DIN4	214×114×50
PSB-24V10A		10A	1A / 2A / 4A	DIN4	237×168×54
PSB-48V3A	54 V DC	3A	0,5A / 1A	DIN3	199×110×50
PSB-48V5A		5A	0,5A / 1A / 2A	DIN4	237×168×54

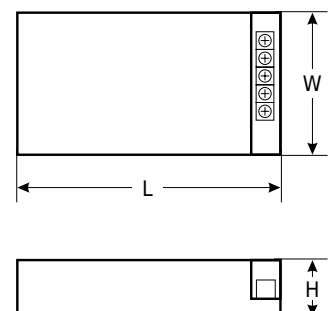
Accessories:



DIN1 / DIN2 / DIN3 / DIN4
Mounting plate (allows mounting power supplies on TH35 rail)



PKAZ168
Set for optical indication
(three LEDs indicating status of power supply)



Enclosed switch mode power supply units with battery backup 13,8/27,6 V DC

Compliant with EN50131-6 standard for alarm systems – GRADE 1, 2
Compliant with EN60839-11 standard for access control

PSG2 series

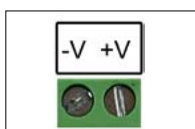
- power supply: 200 – 240 V AC
- impulse voltage stabilizer
- compliance with norm EN50131-6 in grade 1, 2 and II environment class
- compliance with norm EN60839-11
- automatic battery test performed every 5 minutes
- technical outputs relay type:
 - EPS – 230 V power failure AC
 - APS – battery failure
- function START allows running PSU from battery circuit
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- possibility of mounting power supplies on TH35 rail (required mounting plate)
- warranty: 2 years



Sample product:
PSG2-12V7A



Power input terminals



Power output terminals



Technical outputs (relay type)



Battery connectors



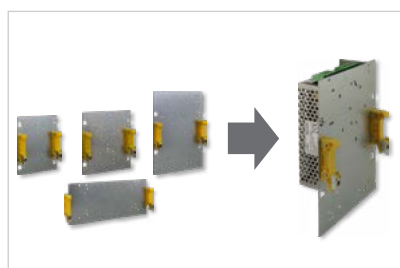
START button



Optical indication
connector

Code	Output voltage	Total output current with charging	Battery charging current	DIN adapter	Dimensions L×W×H [+/- 2mm]
PSG2-12V1A	13,8 V DC	1,2A	0,2A	DIN1 / DIN2	129×98×40
PSG2-12V2A		2,5A	0,5A / 1A	DIN2	
PSG2-12V3A		3,5A	0,5A / 1A	DIN2	
PSG2-12V5A		5A	1A / 2A	DIN3	159×98×42
PSG2-12V7A		7A	1A / 2A	DIN3	
PSG2-12V10A		10A	1A / 4A	DIN4	
PSG2-12V20A		20A	2A / 4A / 8A	DIN4	237×168×54
PSG2-24V2A	27,6 V DC	2,5A	0,5A / 1A	DIN3	159×98×42
PSG2-24V3A		3,5A	0,5A / 1A	DIN3	
PSG2-24V5A		5A	1A / 2A	DIN4	204×141×52
PSG2-24V10A		10A	1A / 2A / 4A	DIN4	237×168×54

Accessories:



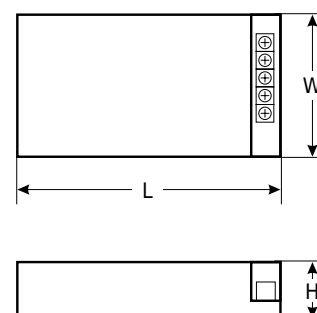
DIN1 / DIN2 / DIN3 / DIN4

Mounting plate (allows mounting power supplies on TH35 rail)



PKAZ168

Set for optical indication
(three LEDs indicating status of power supply)



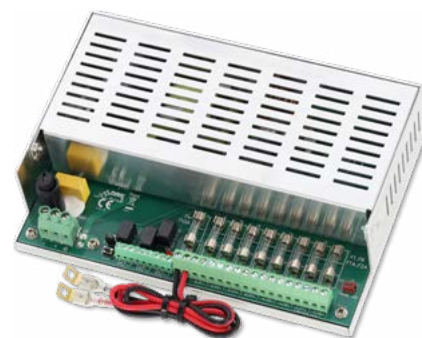
Enclosed, multi-output switch mode power supply unit with battery backup 13,8 V DC

compliant with EN50131-6 standard for alarm systems – GRADE 1, 2

compliant with EN60839-11 standard for access control systems

HPSDCG2 series

- power supply: 200 – 240 V AC
- impulse voltage stabilizer
- compliance with norm EN50131-6 in grade 1, 2 and II environment class
- compliance with norm EN60839-11
- LED optical indication
- dynamic battery test
- battery voltage control
- function START allows running PSU from battery circuit
- technical outputs relay type:
 - EPS technical output indicating AC power loss
 - APS technical output indicating battery failure
 - FPS technical output indicating fuse failure
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection, OLP overload protection
 - OVP overvoltage protection, surge protection
- warranty: 2 years



Sample product:
PSDCG2-12V8x1A



Power input terminals



Fuse-protected outputs:
glass fuse



Technical outputs
relay type



Battery connectors



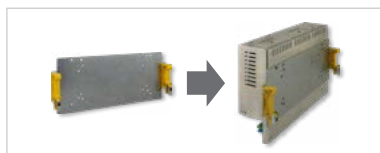
START button



Optical indication
connector

Code	Output voltage	Total output current with charging	Number of outputs	Battery charging current	DIN adapter	Fuse type	Technical outputs	Dimensions L×W×H [+/- 2mm]
PSDCG2-12V4x1A	13,8 V DC	5A	4×1A	0,5A / 1,0A	DIN4	1,0A – glass fuse	✓	200×120×48
PSDCG2-12V8x1A		10A	8×1A	1A / 2A	DIN4		✓	204×141×52

Accessories:



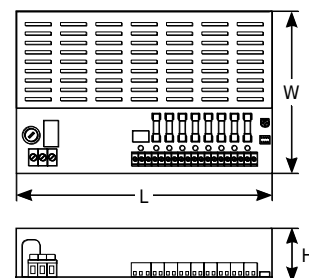
DIN4

Mounting plate (allows mounting power supplies on TH35 rail)

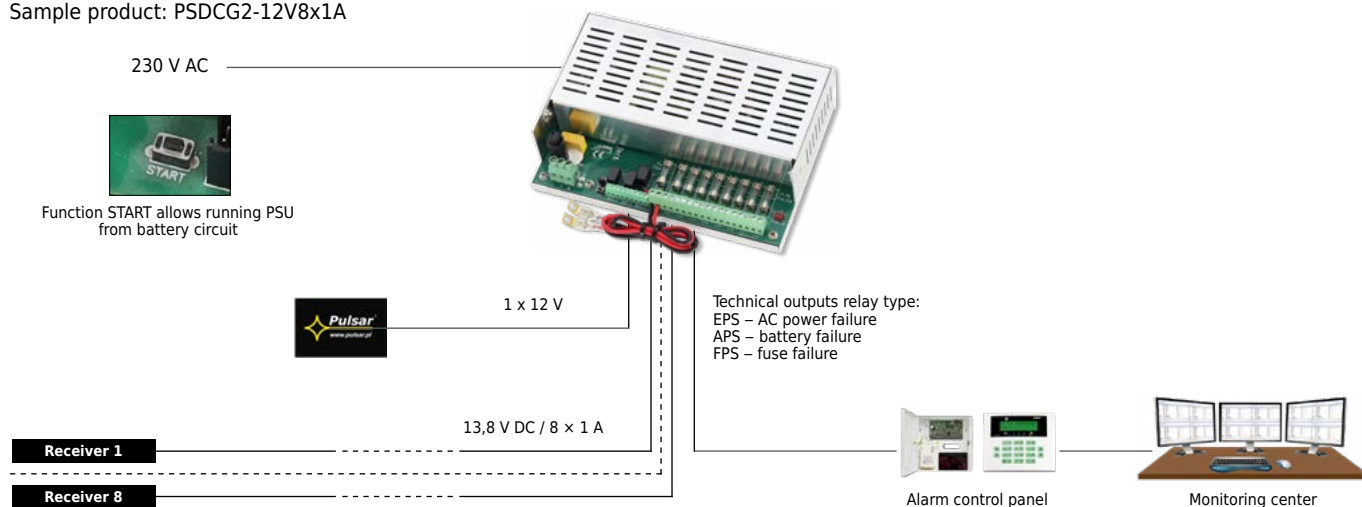


PKAZ168

Set for optical indication



Sample product: PSDCG2-12V8x1A



Receiver e.g.:



Accessories e.g.:

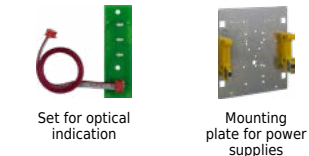


Table of switches

Code	Number of ports: PoE	PoE port power	UPLINK		COMBO	Long Range mode 10 Mb/s – up to 250m	Power supply	Brackets for mounting to surface	Mounting brackets for RACK 19"	DIN rail brackets	Dimensions W×H×D [±/- 2mm]
			ports RJ45	sockets SFP							
32											
SG32	2 – 1 Gb/s	30W	1 – 1 Gb/s	—	—	✓ (ports 1 – 2)	52 V DC / 60W desktop	—	/	—	103×29×50
64											
S64	4 – 100 Mb/s	30W	2 – 100 Mb/s	—	—	✓ (ports 1 – 4)	52 V DC / 60W desktop	✓	/	—	118×28×85
S64WP							48 – 57 V DC / 60W external power supply				
SG64	4 – 1 Gb/s	30W	2 – 1 Gb/s	—	—	—	52 V DC / 60W desktop	✓	/	—	118×28×85
SG64WP							48 – 57 V DC / 60W external power supply				
SG64WP-BT		60W	—	—	—	48 – 57 V DC / 120W external power supply	✓	/	—	118×28×95	
SFG64	4 – 1 Gb/s	30W	—	2 – 1 Gb/s	—	—	52 V DC / 60W desktop	✓	/	—	118×28×95
SFG64WP							48 – 57 V DC / 60W external power supply				
SFG64WP-BT		60W	—	2 – 1 Gb/s	—	—	48 – 57 V DC / 90W external power supply	✓	/	—	118×28×95
SFG64F1	4 – 1 Gb/s	30W	1 – 1 Gb/s	1 – 1 Gb/s	—	—	52 V DC / 60W desktop	✓	/	—	118×28×95
SFG64F1WP							48 – 57 V DC / 60W external power supply				
108											
S108-90W	8 – 100 Mb/s	30W	2 – 100 Mb/s	—	—	✓ (ports 1 – 8)	52 V DC / 90W desktop	✓	/	—	190×28×105
S108							52 V DC / 120W desktop				
S108WP							48 – 57 V DC / 120W external power supply				
SG108-90W	8 – 1 Gb/s	30W	2 – 1 Gb/s	—	—	—	52 V DC / 90W desktop	✓	/	—	190×27×105
SG108							52 V DC / 120W desktop				
SG108WP							48 – 57 V DC / 120W external power supply				
SF108-90W	8 – 100 Mb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	52 V DC / 90W desktop	✓	/	✓	220×44×150
SF108							52 V DC / 120W desktop				
SF108WP							48 – 57 V DC / 120W external power supply				
SFG108-90W	8 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	52 V DC / 90W desktop	✓	/	✓	220×44×150
SFG108							52 V DC / 120W desktop				
SFG108WP							48 – 57 V DC / 120W external power supply				
SFG10F8	—	—	2 – 1 Gb/s	8 – 1 Gb/s	—	—	12 V DC / 2A desktop	✓	/	—	221×29×115
116											
S116	16 – 100 Mb/s	30W	2 – 1 Gb/s	—	—	✓ (ports 9 – 16)	230 V AC / 160W	✓	/	✓	270×44×181
S116WP							48 – 54 V DC / 240W external power supply				
SF116	16 – 100 Mb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	✓	—	230 V AC / 160W	—	/	✓	442×44×224
SF116WP							48 – 54 V DC / 240W external power supply				
SFG116	16 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	230 V AC / 160W	—	/	✓	442×44×224
SFG116WP							48 – 54 V DC / 240W external power supply				
124											
S124	24 – 100 Mb/s	30W	2 – 1 Gb/s	—	—	✓ (ports 17 – 24)	230 V AC / 240W	✓	/	✓	330×44×204
S124WP							48 – 54 V DC / 360W external power supply				
SF124	24 – 100 Mb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	✓	—	230 V AC / 240W	—	/	✓	442×44×224
SF124WP							48 – 54 V DC / 360W external power supply				
SFG124	24 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	230 V AC / 240W	—	/	✓	442×44×224
SFG124WP							48 – 54 V DC / 360W external power supply				
ISFG, ISF series without power supply unit, with SFP socket, industrial											
ISFG42	2 – 1 Gb/s	30W	—	2 – 1 Gb/s	—	—	48 – 57 V DC / 60W external power supply	—	/	—	30×128×112
ISFG64	4 – 1 Gb/s	30W	—	2 – 1 Gb/s	—	—	48 – 57 V DC / 96W external power supply	—	/	—	30×128×112
ISFG64-BT		60W	—	2 – 1 Gb/s	—	—	48 – 57 V DC / 120W external power supply	—	/	—	30×128×112
ISF108	8 – 100 Mb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	48 – 57 V DC / 120W external power supply	—	/	—	54×176×153
ISFG108	8 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	48 – 57 V DC / 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

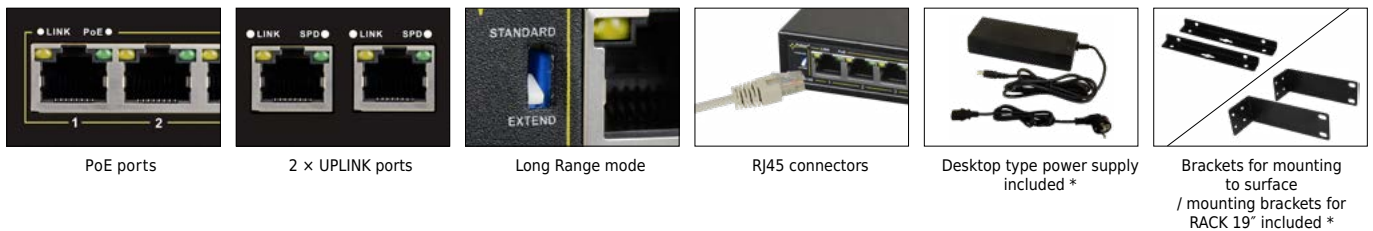
PoE switches for IP cameras with power supply S series

- 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 – 52 V DC (PoE+)
- desktop type power supply included *
- additional mounting elements:
 - brackets for mounting to surface *
 - mounting brackets for RACK 19" *
- warranty: 2 years

* depending on model

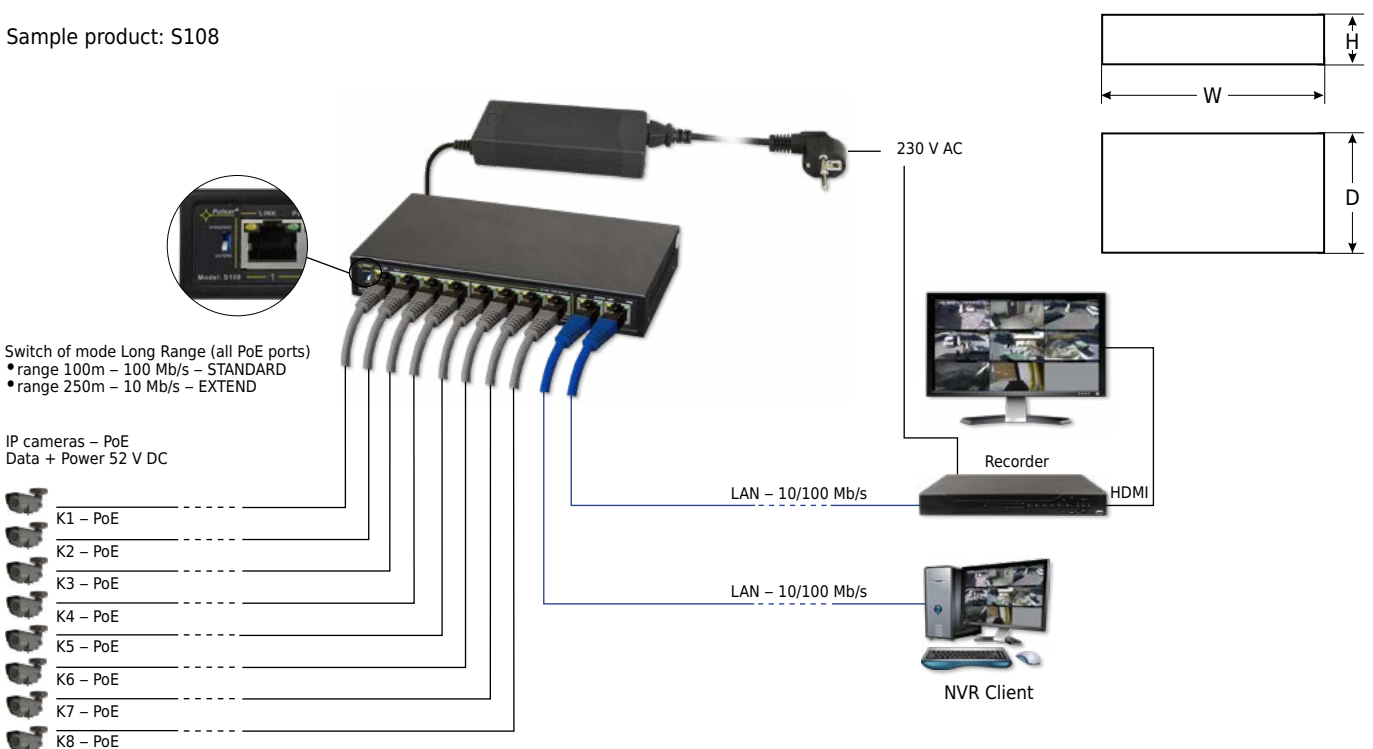


Sample product:
S108



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	52 V DC / 60W desktop	✓ / —	118×28×85
S108-90W	8 – 100 Mb/s	✓ (ports 1 – 8)		52 V DC / 90W desktop	✓ / —	190×28×105
S108		✓ (ports 1 – 8)		52 V DC / 120W desktop	✓ / —	
S116	16 – 100 Mb/s	✓ (ports 9 – 16)	2 – 1 Gb/s	230 V AC	— / ✓	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

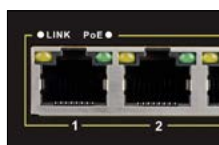
SG series

- supports devices compliant with IEEE 802.3af/at standard
- 1 Gb/s ports
- PoE ports – data transfer and power supply
- Long Range mode: 250m/10 Mb/s *
- 30W for each PoE port – 52 V DC (PoE+)
- desktop type power supply included
- additional mounting elements:
 - brackets for mounting to surface *
- warranty: 2 years

* depending on model



Sample product:
SG108



PoE ports



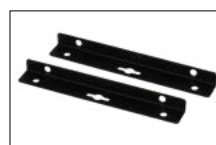
2 × UPLINK ports



RJ45 connectors



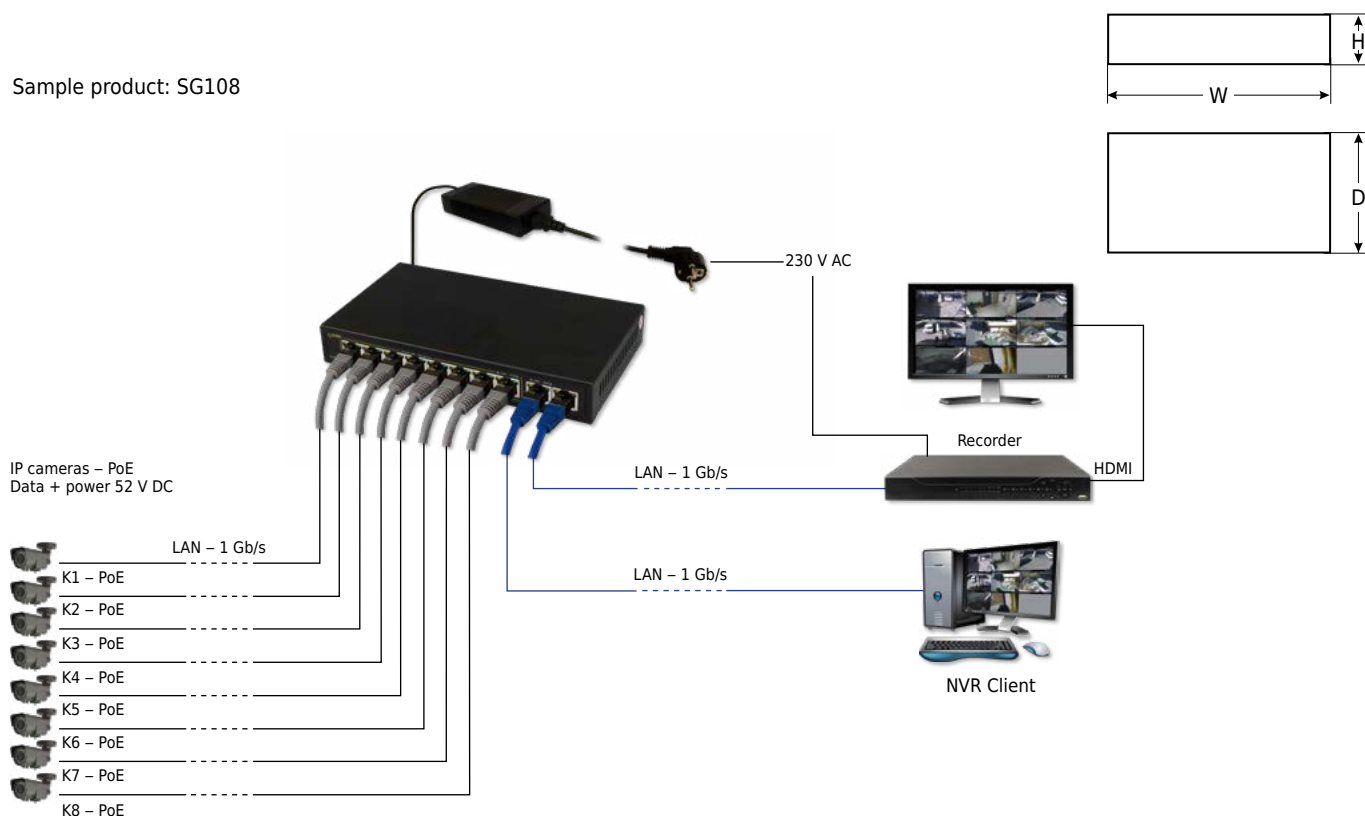
Desktop type power supply
included



Brackets for mounting to
surface *

Code	Number of ports: PoE	Long Range mode 10 Mb/s – up to 250m	Number of ports: UPLINK RJ45	Power supply	Brackets for mounting to surface	Dimensions W×H×D [+/- 2mm]
SG32	2 – 1 Gb/s	✓ (ports 1 – 2)	1 – 1 Gb/s	52 V DC / 60W desktop	—	103×29×50
SG64	4 – 1 Gb/s	—	2 – 1 Gb/s	52 V DC / 60W desktop	✓	118×28×85
SG108-90W	8 – 1 Gb/s	—		52 V DC / 90W desktop	✓	190×27×105
SG108	8 – 1 Gb/s	—		52 V DC / 120W desktop	✓	190×27×105

Sample product: SG108



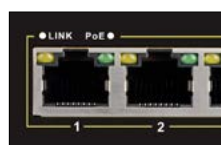
PoE switches for IP cameras with power supply, with SFP sockets SF series

- 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 – 52 V DC (PoE+)
- desktop type power supply included *
- additional mounting elements:
 - brackets for mounting to surface *
 - mounting brackets for RACK 19" *
- warranty: 2 years

* depending on model



Sample product:
SF116



PoE ports



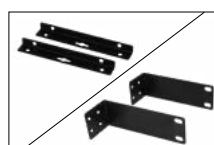
2 x UPLINK ports



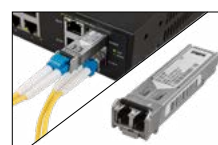
RJ45 connectors



Desktop type power supply
included *



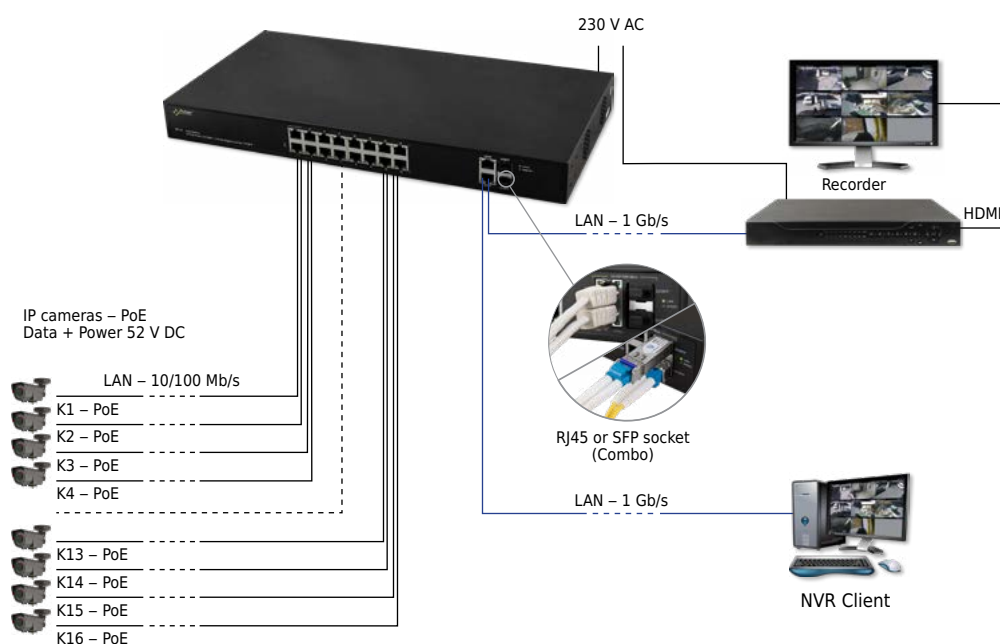
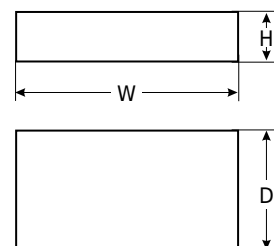
Brackets for mounting to
surface / mounting brackets
for RACK 19" included *



SFP UPLINK ports, possibility
of using SFP 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	—	52 V DC / 90W desktop	✓	/	✓	220×44×150
SF108				—	52 V DC / 120W desktop	✓	/	✓	
SF116	16 – 100 Mb/s			✓	230 V AC	—	/	✓	442×44×224
SF124	24 – 100 Mb/s			✓	230 V AC	—	/	✓	

Sample product: SF116



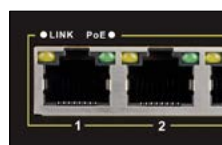
PoE switches for IP cameras with power supply, with SFP sockets SFG series

- 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 – 52 V DC (PoE+)
- desktop type power supply included
- additional mounting elements:
 - brackets for mounting to surface
- warranty: 2 years

* depending on model



Sample product:
SFG64F1



PoE ports



UPLINK ports *



RJ45 connectors



Desktop type power supply
included



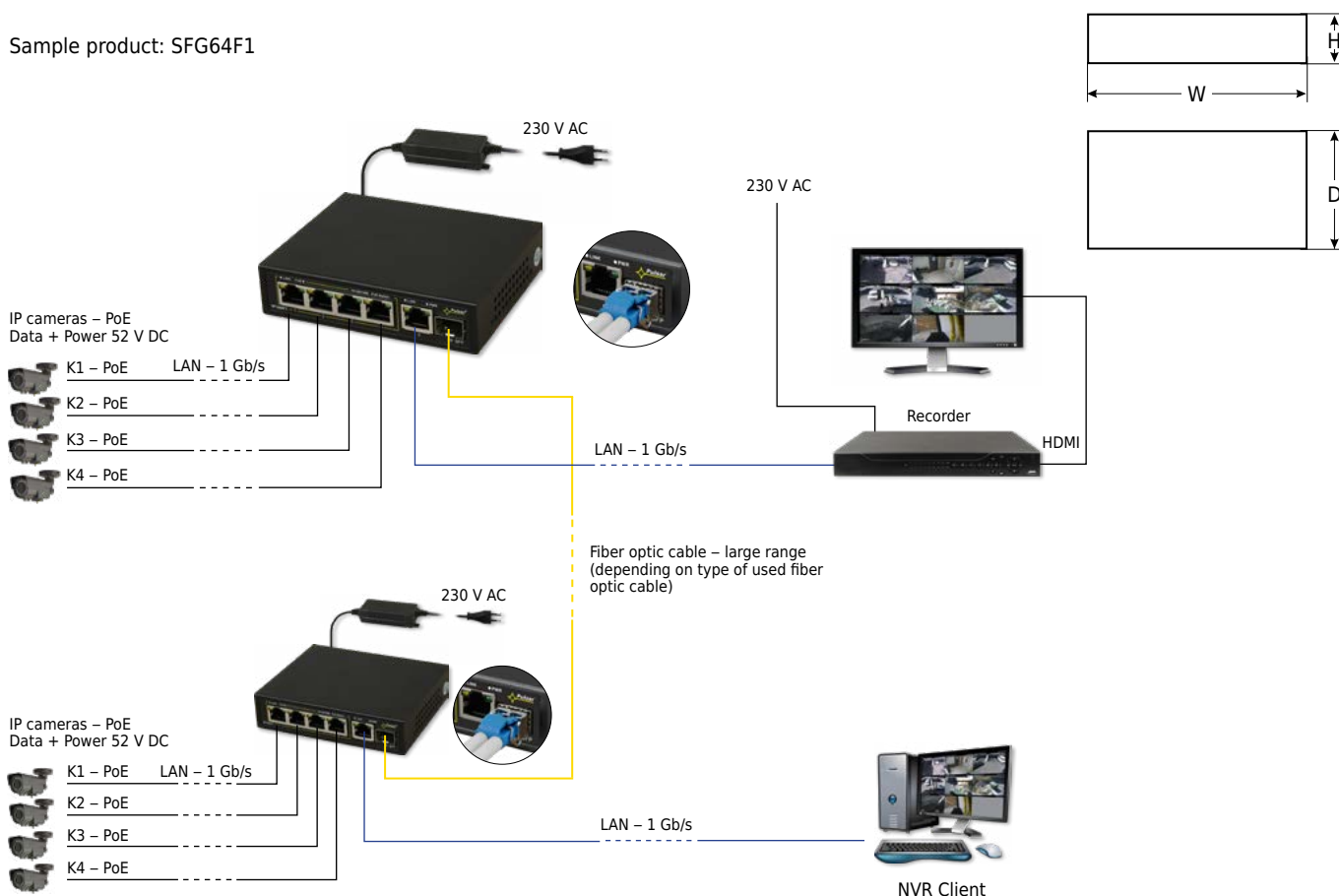
Brackets for mounting to
surface



SFP UPLINK ports, possibility
of using SFP modules

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	52 V DC / 60W desktop	✓	118×28×95
SFG64F1		1 – 1 Gb/s	1 – 1 Gb/s			

Sample product: SFG64F1



Fiber optical switch with power supply, with SFP sockets SFG10F8 series

- 1 Gb/s ports
- desktop type power supply included
- additional mounting elements:
 - brackets for mounting to surface
- warranty: 2 years



2 x UPLINK ports



Desktop type power supply included

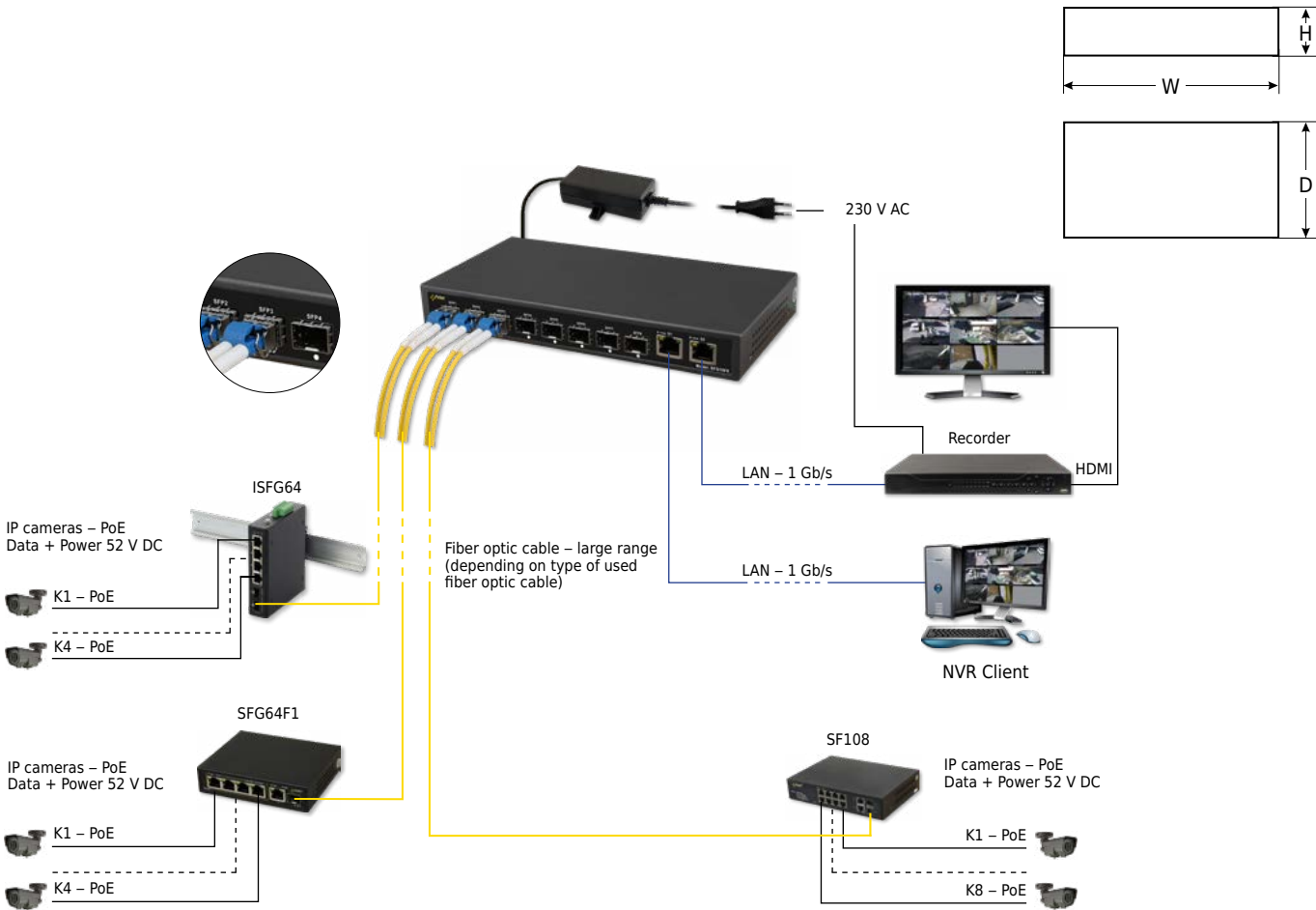


Brackets for mounting to surface



SFP UPLINK ports, possibility of using SFP 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	12 V DC / 2A desktop	✓	221×29×115



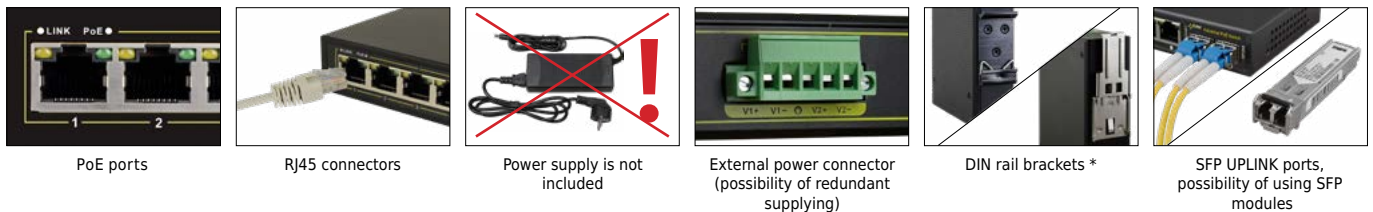
Industrial PoE switches for IP cameras without power supply, with SFP sockets ISFG, ISF series

- supports devices compliant with IEEE802.3af/at/bt standard *
- 10/100 Mb/s and 1 Gb/s ports *
- PoE ports – data transfer and power supply
- 30W/60W for each PoE port – 52 V DC (PoE+/PoE++) *
- external power supply 52 – 57 V DC
- possibility of redundant supplying
- power supply unit is not included
- additional mounting elements:
 - DIN rail brackets
- warranty: 5 year

* depending on model

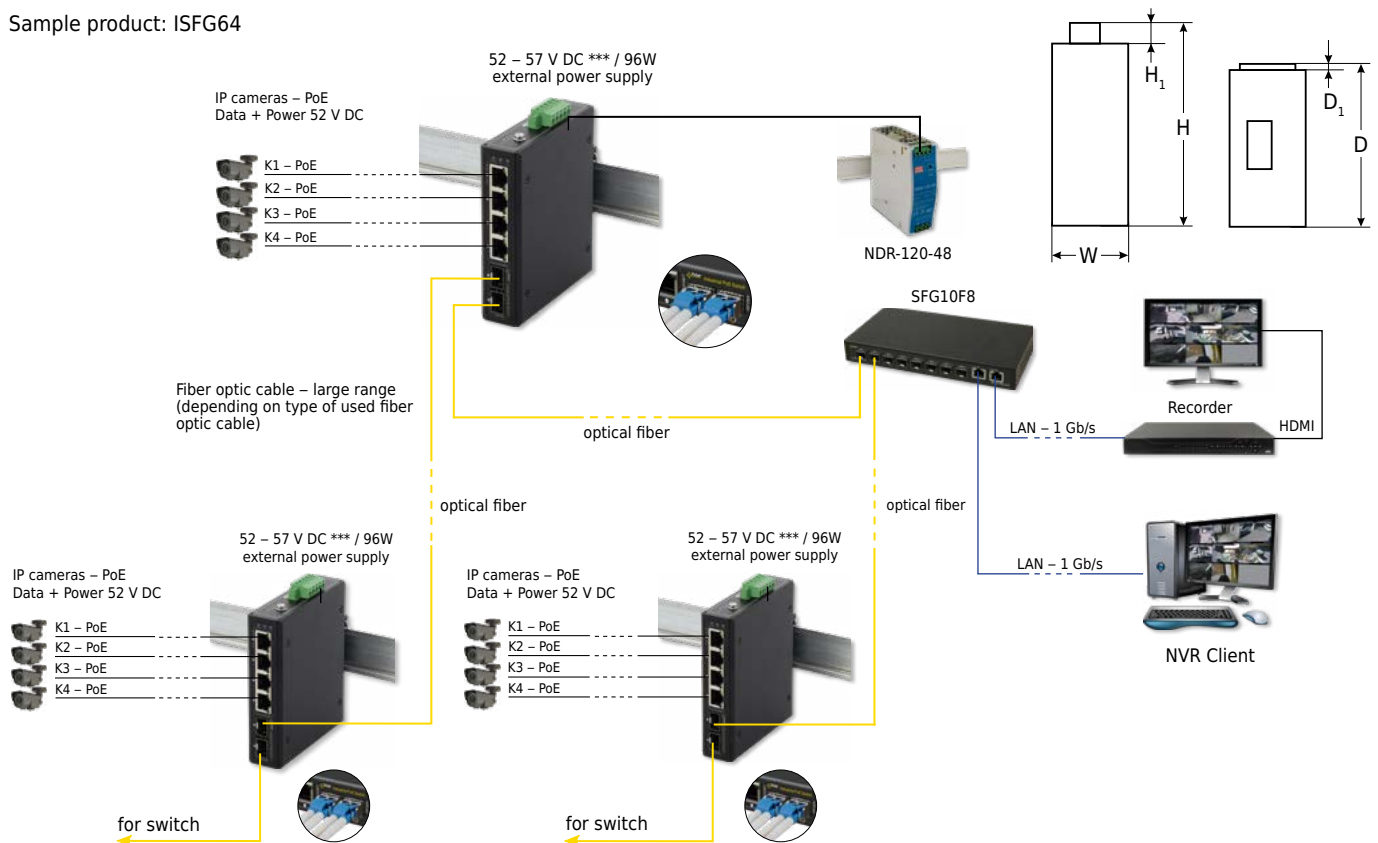


Sample product:
ISFG64



Code	Number of ports: PoE	PoE ports power	UPLINK		Power supply	DIN rail brackets	Dimensions W×H×D [+/- 2mm] H ₁ ×D ₁ [+/- 2mm]
			RJ45 ports	SFP sockets			
ISFG42	2 – 1 Gb/s	30W	—	2 – 1 Gb/s	48 – 57 V DC / 60W external power supply	✓	30×128×112 10×9
ISFG64	4 – 1 Gb/s	30W	—		48 – 57 V DC / 96W external power supply	✓	
ISFG64-BT	4 – 1 Gb/s	60W	—		48 – 57 V DC / 120W external power supply	✓	
ISF108	8 – 100 Mb/s	30W	2 – 1 Gb/s		48 – 57 V DC / 120W external power supply	✓	54×176×153 10×8
ISFG108	8 – 1 Gb/s	30W			48 – 57 V DC / 120W external power supply	✓	

Sample product: ISFG64



*** to maintain PoE+ standard

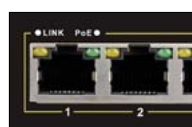
PoE switches for IP cameras – without power supply for installation in universal power supply systems SWS/SWB/SWR/ SWSH/SWBH series S...WP, SG...WP, SF...WP, SFG...WP series

- supports devices compliant with IEEE802.3af/at/bt 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/60W for each PoE port – 52 V DC (PoE+/PoE++) *
- external power supply 48 – 54 V DC / 48 – 57 V DC *
- power supply unit is not included
- additional mounting elements:
 - brackets for mounting to surface *
 - mounting brackets for RACK 19" *
- warranty: 2 years



Sample product:
SF116WP

* depending on model



PoE ports



2 x UPLINK ports



Power input



Power supply unit is
not included



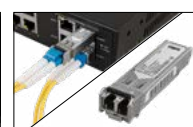
Brackets for mounting
to surface
/ mounting brackets for
RACK 19" included *

Applies to: S...WP series

Applies to: SF...WP series



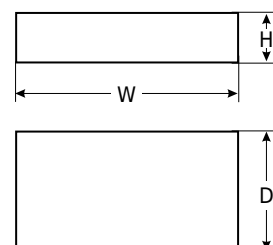
Long Range mode



SFP UPLINK ports,
possibility of using SFP
modules

Code	Number of ports: PoE	PoE ports power	Long Range mode 100 Mb/s – up to 100m 10 Mb/s – up to 250m	UPLINK		Power supply	Brackets for mounting to surface	Mounting brackets for RACK 19"	Dimensions W×H×D [± 2mm]
				RJ45 ports	SFP sockets				
S64WP	4 – 100 Mb/s	30W	✓ (ports 1 – 4)	2 – 100 Mb/s	—	48 – 57 V DC	✓ / —		118×28×85
SG64WP	4 – 1 Gb/s	30W	—	2 – 1 Gb/s	—	48 – 57 V DC			
SG64WP-BT	4 – 1 Gb/s	60W	—	2 – 1 Gb/s	—	48 – 57 V DC			
SFG64WP	4 – 1 Gb/s	30W	—	—	2 – 1 Gb/s	48 – 57 V DC			
SFG64WP-BT	4 – 1 Gb/s	60W	—	—	2 – 1 Gb/s	48 – 57 V DC			
SFG64F1WP	4 – 1 Gb/s	30W	—	1 – 1 Gb/s	1 – 1 Gb/s	48 – 57 V DC	✓ / —		190×28×105
S108WP	8 – 100 Mb/s	30W	✓ (ports 1 – 8)	2 – 100 Mb/s	—	48 – 57 V DC			
SG108WP	8 – 1 Gb/s	30W	—	2 – 1 Gb/s	—	48 – 57 V DC			
SF108WP	8 – 100 Mb/s	30W	—	2 – 1 Gb/s	2 – 1 Gb/s	48 – 57 V DC	✓ / ✓	✓	220×44×150
SFG108WP	8 – 1 Gb/s	30W	—	2 – 1 Gb/s	2 – 1 Gb/s	48 – 57 V DC	✓ / ✓	✓	220×44×150
S116WP	16 – 100 Mb/s	30W	✓ (ports 9 – 16)	2 – 1 Gb/s	—	48 – 54 V DC	— / ✓	✓	270×44×181
SF116WP	16 – 100 Mb/s	30W	—	2 – 1 Gb/s	2 – 1 Gb/s	48 – 54 V DC			442×44×224
SFG116WP	16 – 1 Gb/s	30W	—	2 – 1 Gb/s	2 – 1 Gb/s	48 – 57 V DC			442×44×224
S124WP	24 – 100 Mb/s	30W	✓ (ports 17 – 24)	2 – 1 Gb/s	—	48 – 54 V DC	— / ✓	✓	330×44×204
SF124WP	24 – 100 Mb/s	30W	—	2 – 1 Gb/s	2 – 1 Gb/s	48 – 54 V DC			442×44×224
SFG124WP	24 – 1 Gb/s	30W	—	2 – 1 Gb/s	2 – 1 Gb/s	48 – 57 V DC			442×44×224

Example of application:

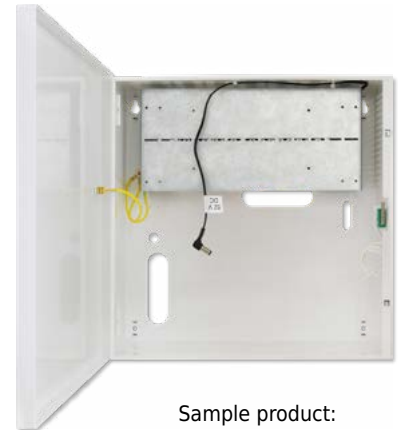


Power supply systems for PoE switches

SWS series

Enclosure with power supply unit and additional adapter for mounting switch

- power supply: 200 – 240 V AC
- output voltage – PoE: 52 V DC – JACK plug 2.1/5.5
- dedicated to 4/8 port PoE switches
- metal enclosure – color white RAL9003
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - anti-sabotage protection
- warranty: 2 years



Sample product:
SWS-150



Tamper switch detecting enclosure opening – 1 piece



Closing – screwed – 2 pieces



Spacers (plastic) – 8mm



Switch power supply JACK 2.1/5.5 plug



Mounting plate for PoE switches

Code	Output voltage – PoE / power	Adjustable output voltage – PoE	Enclosure dimensions $W \times H \times D + D_1$ [± 2mm]	Mounting plate dimensions $W_2 \times H_2 \times D_2$ [± 2mm]
SWS-60	52 V DC / 60W	48 – 53 V DC	230×300×82+8	200×110×50
SWS-150	52 V DC / 150W	48 – 53 V DC	300×300×105+8	230×110×45

Accessories:

DC/DC50HV

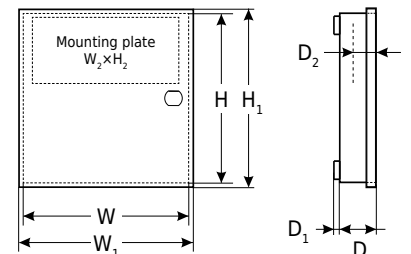


Converter (e.g. recorder power supply 12 V DC)

MR008 / MR027

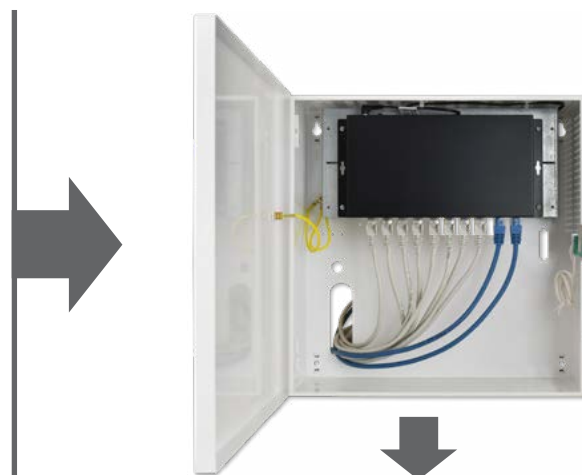


MR008 (various code) MR027 (same code)



Sample product: SWS-150

Switches:
S64WP / S108WP
SG64WP / SG108WP
SFG64WP / SFG64F1WP



IP receivers
Data + power supply 52 V DC



IP camera



IP telephone



IP intercom



IP video intercom



IP access control



Access Point IP



Recorder



NVR Client



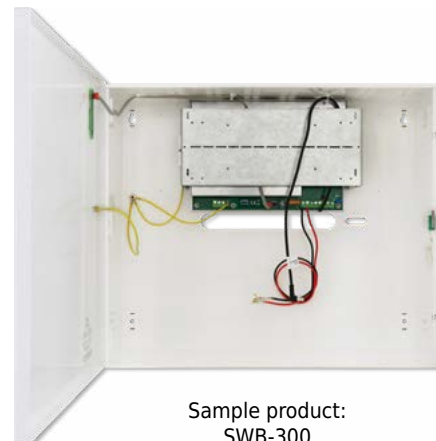
Controller IP
(IP telephone, IP access control, ...)

Power supply systems for PoE switches, with battery backup SWB series

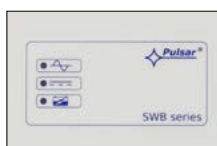
Enclosure with power supply unit with battery backup and additional mounting plate for mounting switch and recorder *

- power supply: 200 – 240 V AC
- output voltage – PoE: 52 V DC / 54 V DC * – JACK plug 2.1/5.5
- possibility of installing additional mounting plate *
- optical indication
- battery charging current: 0,5A / 1A / 2A jumper selectable *
- deep discharge battery protection – UVP
- battery charging and maintenance control
- metal enclosure – color white RAL9003
- protections:
 - SCP short circuit protection,
 - OVP overvoltage protection,
 - surge protection,
 - OLP overload protection,
 - OHP overheat protection *,
 - anti-sabotage protection,
- warranty: 2 years

* depending on model



Sample product:
SWB-300



LED optical indication



Tamper switch detecting
enclosure opening – 1 piece



Closing – screwed – pieces



Spacers (plastic) – 8mm



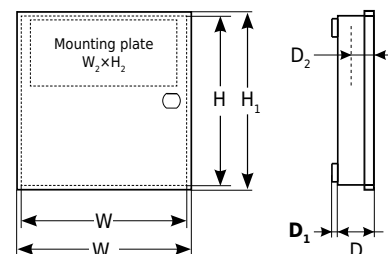
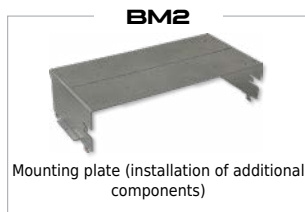
Switch power supply
2.1/5.5 JACK plug



Mounting plate for
PoE switches

Code	Output voltage – PoE / power	Battery charging current	Recommended battery/ batteries	Enclosure dimensions $W \times H \times D + D_1$ [+/- 2mm]	Mounting plate dimensions $W_2 \times H_2 \times D_2$ [+/- 2mm]	Additional mounting plate
SWB-60	52 V DC / 60W	1A / 2A	1x 7Ah	300x300x105+8	230x110x45	—
SWB-120	52 V DC / 120W	0,5A / 2A	2x 17Ah	330x380x173+8	245x150x90	BM2
SWB-300	54 V DC / 300W	0,5A / 1A / 2A	4x 17Ah	460x390x173+8	245x150x90	

Accessories:



Sample product: SWB-300

Switches:
S64WP / S108WP
SG64WP / SG108WP
SFG64WP / SFG64F1WP
SF108



Batteries 4x 7 – 17Ah



BM2 – mounting plate



DC/DC50HV converter – 12V/5A



IP receivers
Data + power supply 52 V DC



IP camera



IP telephone



IP intercom



IP video
intercom



IP access
control



Access Point IP



Recorder



NVR Client



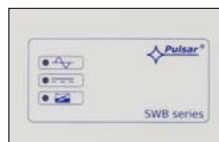
Controller IP
(IP telephone, IP access control, ...)

Power supply systems for PoE switches, with battery backup

SWB...RACK series

Enclosure with power supply unit with battery backup and mounting bracket for RACK 19" standard devices

- power supply: 200 – 240 V AC
- output voltage – PoE: 54 V DC– EDG 5.08MM–2P plug (JACK plug 2.1/5.5 – included)
- RACK – 3U brackets, with adjustable mounting height on 3 levels
- enclosure construction is compliant with requirements of General Data Protection Regulation GDPR (possibility of installing two locks with different codes)
- optical indication
- battery charging current: 0,5A / 1A / 2A jumper selectable
- deep discharge battery protection – UVP
- battery charging and maintenance control
- metal enclosure – color white RAL9003
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - OHP overheat protection
 - surge protection
 - anti-sabotage protection
- warranty: 2 years



LED optical indication



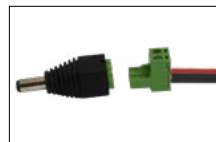
Tamper switch detecting enclosure opening – 1 piece



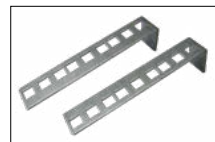
Closing – screwed – 2 pieces



Spacers (plastic) – 8mm



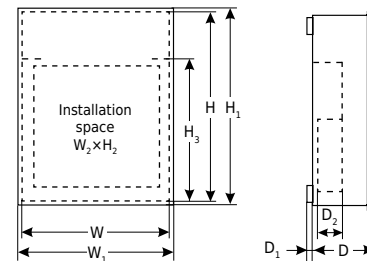
Switch power supply 5.08-2P plug (DC 2.1/5.5 reduction included)



RACK 3U brackets horizontal

Code	Output voltage – PoE / power	Battery charging current	Recommended batteries	RACK 19" profiles / recorder space	GDPR (possibility of installing two locks with different codes)	Enclosure dimensions $W \times H \times D_1$ [± 2mm]	Installation space $W_2 \times H_2 \times D_2$ [± 2mm]
SWB-300RACK	54 V DC / 300W	0,5A / 1A / 2A	4x 17Ah	3U – horizontal / ✓	✓	535x650x165+14	530x430x155

Accessories:



Switches:
S116WP / S124WP
SF108WP, SF116WP, SF124WP

Batteries 4x 7 – 17Ah

DC/DC50HV converter – 12V/5A

Patch Panel

Recorder RACK



IP receivers
Data + power supply 52 V DC



IP camera



IP telephone



IP intercom



IP video intercom



IP access control



Access Point IP



NVR Client



Controller IP
(IP telephone, IP access control, ...)

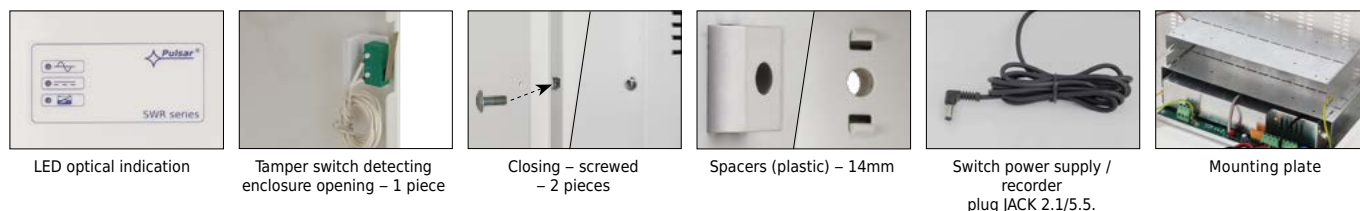
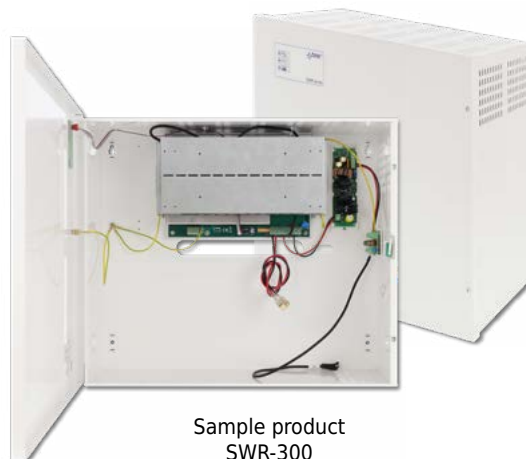
Power supply systems for PoE switches and recorder, with battery backup

SWR series

Enclosure with power supply with battery backup and additional mounting plate for switch and recorder *

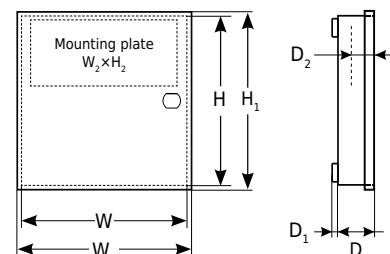
- power supply: 200 – 240 V AC
- output voltage:
 - 120W – PoE: 52 V DC / recorder: 12 V DC / 2A (max.)
 - 300W – PoE: 54 V DC / recorder: 12 V DC / 5A (max.)
- recorder power supply, switch: JACK plug 2.1/5.5
- removable universal mounting plates
- optical indication
- battery charging current: 0,5A / 1A / 2A jumper selectable *
- deep discharge battery protection (UVP)
- battery charging and maintenance control
- metal enclosure – colour white RAL9003
- possibility of mounting tamper switch detects detachment from wall (required PKAZ067)
- protections:
 - SCP short circuit protection
 - OVP overvoltage protection
 - surge protection
 - OLP overload protection
 - OHP overheat protection *
 - anti-sabotage protection
- warranty: 2 years

* depending on model



Code	Maximum current	Circuit switch	Circuit recorder	Battery charging current	Recommended batteries	Dimensions of recorder space $W_2 \times H_2 \times D_2$ [± 2mm]	Dimensions $W \times H \times D + D_1$ [± 2mm]
SWR-120	120W	52 V DC	12 V DC (2A max.)	0,5A / 2A	2 × 17Ah	250×350×48 (at 2 × 7Ah) 250×180×48 (at 2 × 17Ah)	330×380×173+14
SWR-300	300W	54 V DC	12 V DC (5A max.)	0,5A / 1A / 2A	4 × 17Ah	380×380×48 (at 4 × 7Ah) 380×280×48 (at 4 × 17Ah)	460×390×173+14

Accessories:



Sample product: SWR-300

Switches:
S64WP / S108WP
SG64WP / SG108WP
SFG64WP / SFG64F1WP
SF108WP



IP receivers
Data + power supply 52 V DC



Power supply systems for PoE switches without battery backup, ABS IP56

SWSH series

Enclosure with power supply unit and mounting plate for switch

- power supply: 200 – 240 V AC
- output voltage – PoE: 52 V DC – JACK plug 2.1/5.5
- dedicated to 2/4/8 port PoE switches
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- ABS enclosure – IP56
- UV resistance
- warranty: 2 years



Closing – screwed – 4 pieces



Pressure compensator



Cable glands



Switch power supply JACK
plug 2.1/5.5



Mounting plate



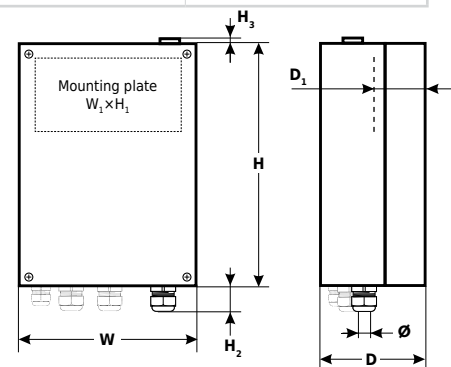
Hermetic enclosure IP56

Code	Output voltage – PoE / Power	Adjustable output voltage – PoE	Enclosure dimensions $W \times H \times D$ [± 2mm]	Mounting plate dimensions $W_1 \times H_1 \times D_1$ [± 2mm]	Number of cable glands / cable diameter
SWSH-120	52 V DC / 120W	48 – 53 V DC	225×308×130	191×100×57	1 piece / 10 – 14mm 3 pieces / 13 – 18mm

Accessories:



OZB4 metal clamp with a mounting plate



Switches:
S64WP / S108WP
SG64WP / SG108WP
SFG64WP / SFG64F1WP
ISFG42 / ISFG64 / ISF108



IP receivers
Data + power supply 52 V DC



IP camera



IP telephone



IP intercom



IP video
intercom



IP access
control



Access Point IP



Recorder



NVR Client



Controller IP
(IP telephone, IP access control, ...)

Power supply systems for PoE switches with battery backup

ABS IP44

SWBH series

Enclosure with power supply with battery backup and mounting plate for switch

- power supply: 200 – 240 V AC
- output voltage – PoE: 52 V DC – JACK plug 2.1/5.5
- function START allows running PSU from battery circuit
- dedicated to 2/4 port PoE switches
- battery charging current: 0,5A
- deep discharge battery protection (UVP)
- battery charging and maintenance control
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- ABS enclosure – IP44
- UV resistance
- warranty: 2 years



Sample product
SWBH-60



Closing – screwed – 4 pieces



Ventilation cover – 2 pieces



Cable glands



Battery connectors



Switch power supply
JACK plug 2.1/5.5



Mounting plate



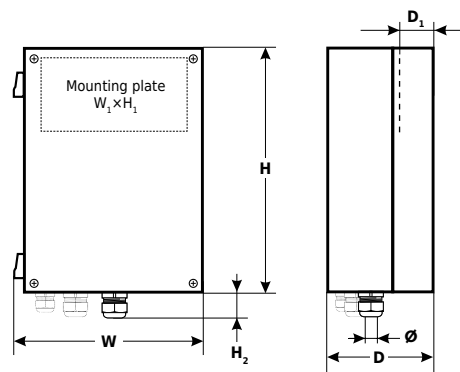
Adapters for glands

Code	Output voltage – PoE / Power	Battery charging current	Recommended batteries	Enclosure dimensions W×H×D [± 2mm]	Mounting plate dimensions W ₁ ×H ₁ ×D ₁ [± 2mm]	Number of cable glands / cable diameter
SWBH-60	52 V DC / 60W – buffer	0,5A	1 × 7Ah	240×308×130	204×92×35	1 piece / 10 – 14mm 2 pieces / 13 – 18mm
SWBH-120	52 V DC / 120W – buffer	0,5A	2 × 12Ah	318×387×130	210×152×45	1 piece / 10 – 14mm 3 pieces / 13 – 18mm

Accessories:



OZB4 metal clamp with a mounting plate



Sample product: SWBH-60

Switches:
S64WP
SG64WP
SFG64WP
SFG64F1WP

ISFG42 / ISFG64



Batteries 1 × 7Ah



IP receivers
Data + power supply 52 V DC



IP camera



IP telephone



IP intercom



IP video intercom



IP access control



Access Point IP



Recorder



NVR Client



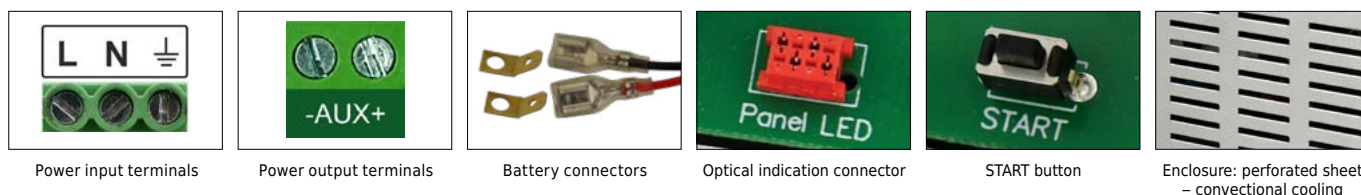
Controller IP
(IP telephone, IP access control, ...)

Enclosed power supply units with battery backup 52 V DC PWB series

- dedicated for PoE supplying systems
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection
- optional equipment:
 - set of LED optical indication PKAZ168
 - DIN4 mounting plate
- warranty: 2 years

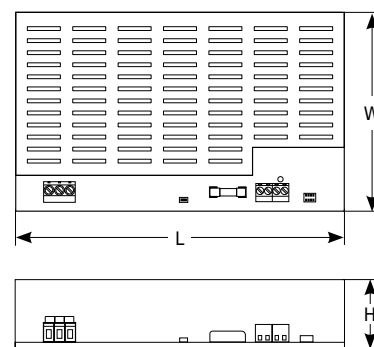
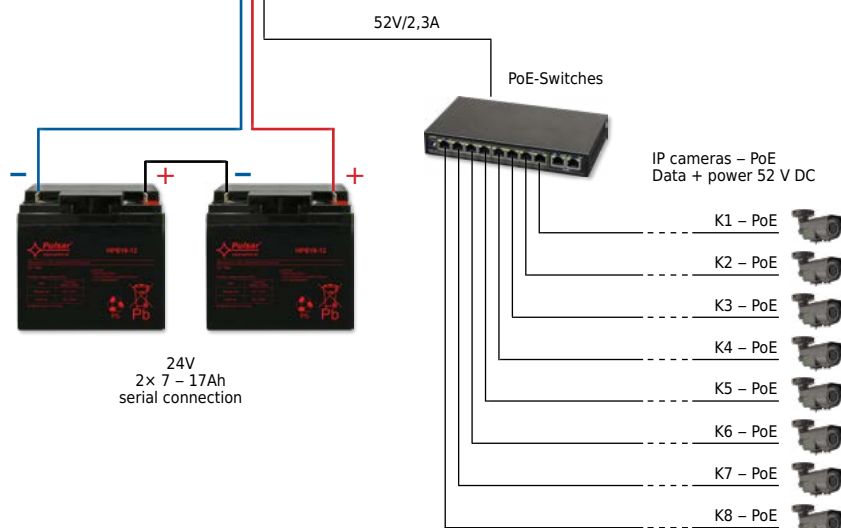


Sample product:
PWB-52V2A

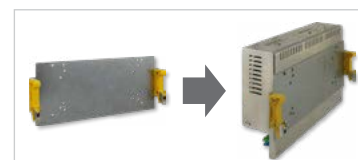


Code	Output voltage	Total current	Battery charging current	Recommended battery/batteries	Dimensions LxWxH [+/- 2mm]
PWB-52V1A	52 V DC	1,15A	0,5A	1x 7 – 17Ah	200x120x48
PWB-52V2A		2,3A		2x 7 – 17Ah	204x141x52

Sample product: PWB-52V2A



Accessories:



DIN4
Mounting plate (allows mounting
power supplies on TH35 rail)



PKAZ168
Set for optical indication

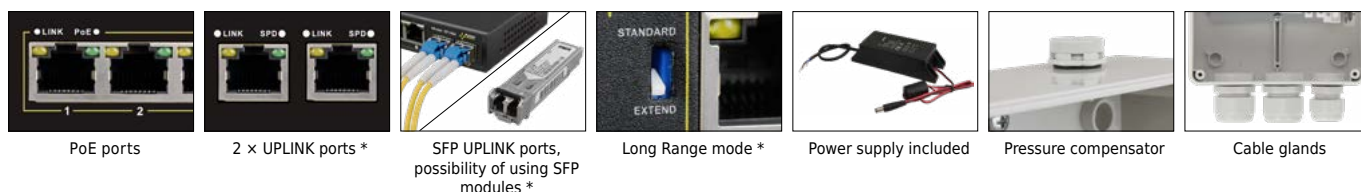
PoE switches for IP cameras with power supply, in hermetic enclosure – IP56 S...H, SG...H, SFG...H series

- 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 – 52 V DC (PoE+)
- RJ45 UPLINK ports: 2 ports – for recorder / switch / computer installation *
- SFP UPLINK sockets: 2 ports – for recorder / switch / computer installation *
- hermetic enclosure – IP56
- warranty: 1 year

* depending on model

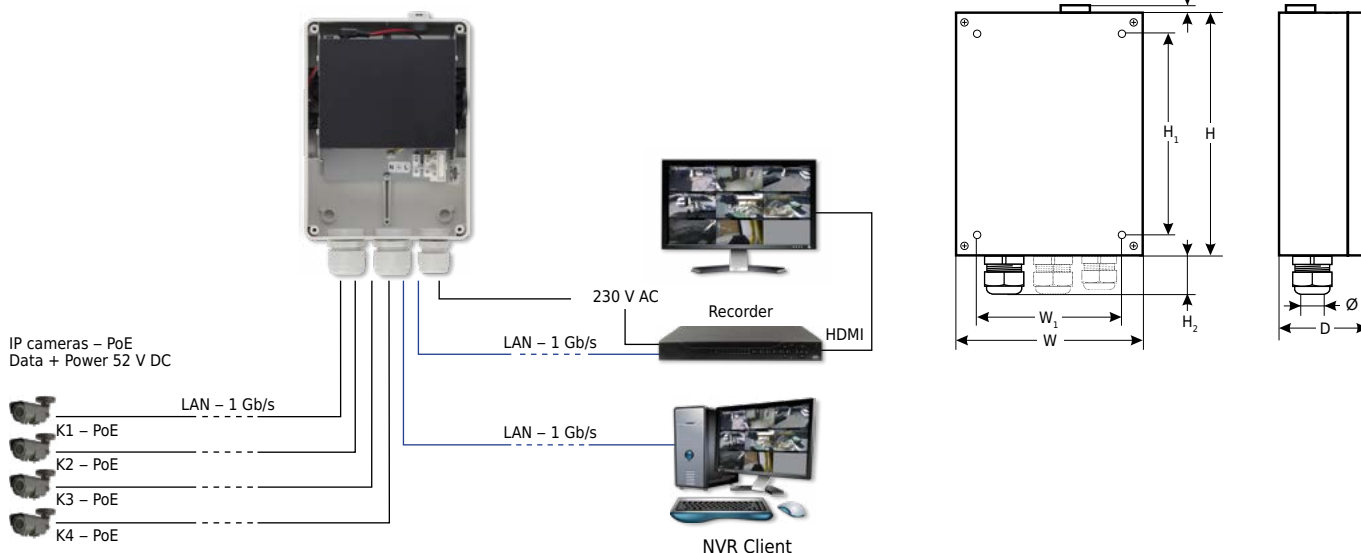


Sample product:
SG64H



Code	Number of ports: PoE	Long Range mode 100 Mb/s – up to 100m 10 Mb/s – up to 250m	UPLINK		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	—	52 V DC / 60W desktop	2 pcs. / 13 – 18mm 1 pcs. / 10 – 14mm	146×196×78
SG64H	4 – 1 Gb/s	—	2 – 1 Gb/s	—			
SFG64H			—	2 – 1 Gb/s			

Sample product: SG64H



Accessories:



OZB2



Pole mounting horizontally or vertically

SFP fiber optic modules for switches of SF..., SFG..., 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 2 km / up to 20 km *
- transmission speed: 1,25 Gb/s
- standards and protocols: IEEE 802.3z 1000Base-FX
- power supply: 3,3 V DC (power from SFP port)
- notes:
 - built-in DDM (Digital Diagnostics Monitoring)
 - module has snap-lock system for optical connectors
- warranty: 2 years

* depending on model



Sample product:
GBIC-101



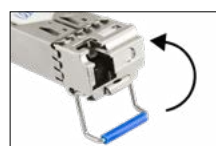
Optical Connector Type:
2xLC



Optical Connector Type:
1xSC



Optical Connector Type:
1xLC



Module has
snap-lock system for
optical connectors

GBIC-109

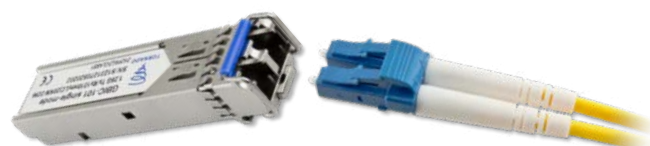


RJ45 socket compatible with
SFP port

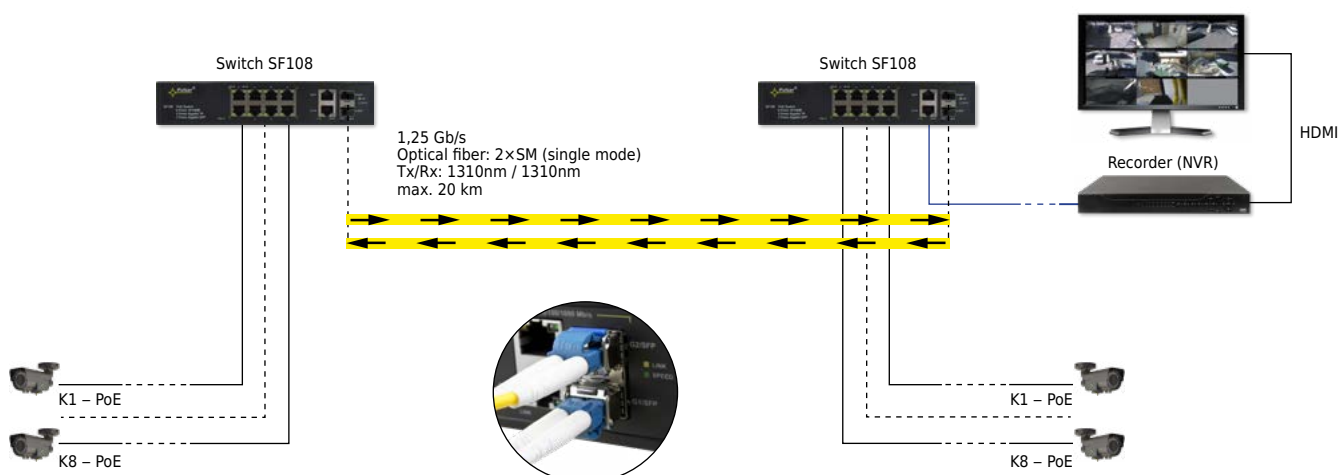
Code	Fiber type	Optical Connector Type	Wavelength Tx / Rx	Transmission range	Transmission speed
GBIC-101	SM	2xLC	1310nm / 1310nm	20 km	1,25 Gb/s
GBIC-102	MM	2xLC	1310nm / 1310nm	2 km	1,25 Gb/s
GBIC-103	SM	1xSC	1310nm / 1550nm	20 km	1,25 Gb/s
GBIC-104	SM	1xSC	1550nm / 1310nm	20 km	1,25 Gb/s
GBIC-105	SM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

Code	Notes	Transmission range	Transmission speed
GBIC-109	RJ45 socket compatible with SFP port	100 m	10/100/1000 Mb/s

Sample product: GBIC-101



Optical Connector Type
2xLC



Twisted pair wires

U/UTP – unshielded, Category 5e/6

PU-NC series

Destination:

IP video surveillance systems (especially recommended for IP systems PoE)
 HD CCTV systems (CVI, TVI, AHD) – video, audio and power transmission
 ICT systems (LAN networks)

- Material – Cu (99,99%)
- cable length in package 305m / 500m – drum *
- marker on cable every 1m
- U/UTP – unshielded
- bending radius 40mm
- category 5e / 6 *
- class of performance reaction to fire: Fca / Eca *
- indoor / outdoor *
- 2 / 5 years warranty *

* depending on model



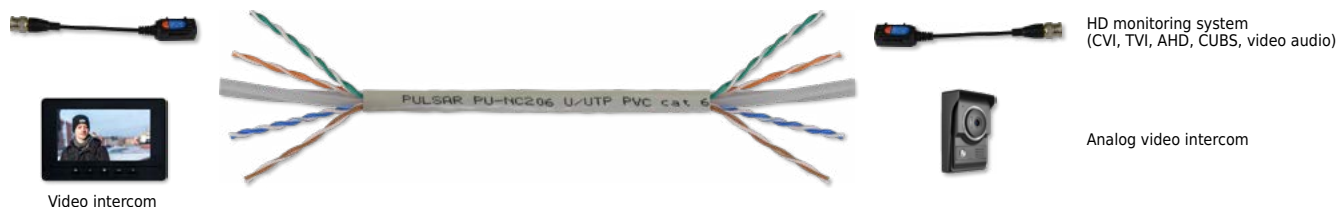
Sample product:
PU-NC206

Code	Category	Type	Destination	Ø cables / cores [mm]	Length [m]	Material	Colour	Package dimensions [mm]
PU-NC200	5e	U/UTP	indoor	4,5 / 0,45	305	PVC	RAL7035 (grey)	345×345×190
PU-NC201	5e	U/UTP	indoor	5,0 / 0,50	305	PVC	RAL7032 (grey-beige)	355×355×200
PU-NC206	6	U/UTP	indoor	6,3 / 0,55	305	PVC	RAL7032 (grey-beige)	410×410×210
PU-NC301	5e	U/UTP	outdoor	5,3 / 0,50	305	PE	RAL9005 (black)	385×385×210
PU-NC301B	5e	U/UTP	outdoor	5,3 / 0,50	500	PE	RAL9005 (black)	Ø=365, H=192
PU-NC302	5e	U/UTP	outdoor	5,3 / 0,50	305	PE – gel-filled	RAL9005 (black)	370×370×215

Sample product: PU-NC206



Another systems



Alarm, intercom, telecommunication cables

YTDY

PU-SC series

Destination:

construction of low-voltage installations permanently installed inside buildings
alarm, intercom, telecommunication systems and others

- Material – Cu (99,99%)
- cable length in package 100m – marker on cable every 1m
- YTDY
- bending radius 38/43mm *
- reaction to fire class: Eca
- inside
- 5 years warranty

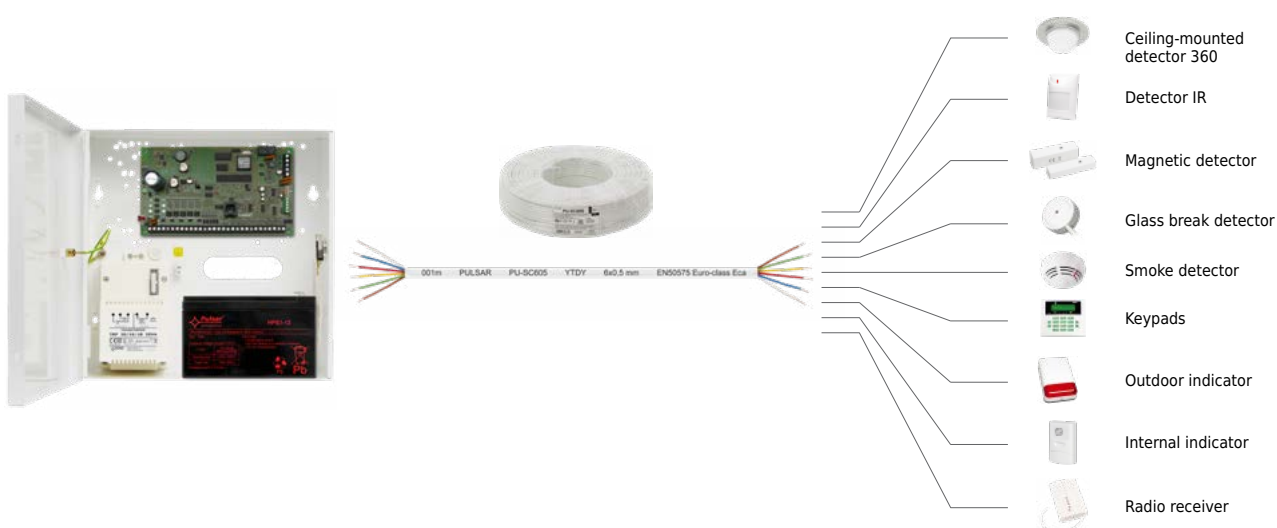
* depending on model



Sample product:
PU-SC605

Code	Type	Destination	Number of cores	External diameter/cores [mm]	Material	Colour	Dimensions Ø × H [+/- 2mm]	Collective package
PU-SC605	YTDY	inside	6	3,8 / 0,5	PVC	RAL9010 (white)	Ø 230 × 55	8 pcs 600 × 230 × 240
PU-SC805			8	4,3 / 0,5			Ø 230 × 60	6 pcs 600 × 230 × 240

Sample product: PU-SC605

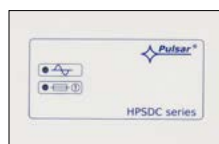


Multi-output power supply units 12 V DC HPSDC series

- power supply: 200 – 240 V AC
- voltage adjustment range: 12 – 15 V DC
- fuse type: glass fuse
- FPS technical output, fuse failure – relay type: 1A@ 30 V DC / 50 V AC
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - anti-sabotage protection (unwanted enclosure opening)
- notes:
 - surface mounted enclosure, closing – screwed (lock assembly possible)
- warranty: 2 years



Sample product:
HPSDC-12V16x1A



LED optical indication



Tamper switch detecting
enclosure opening – 1 piece



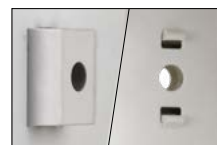
Fuse-protected outputs:
glass fuse



FPS type technical output of
fuse failure



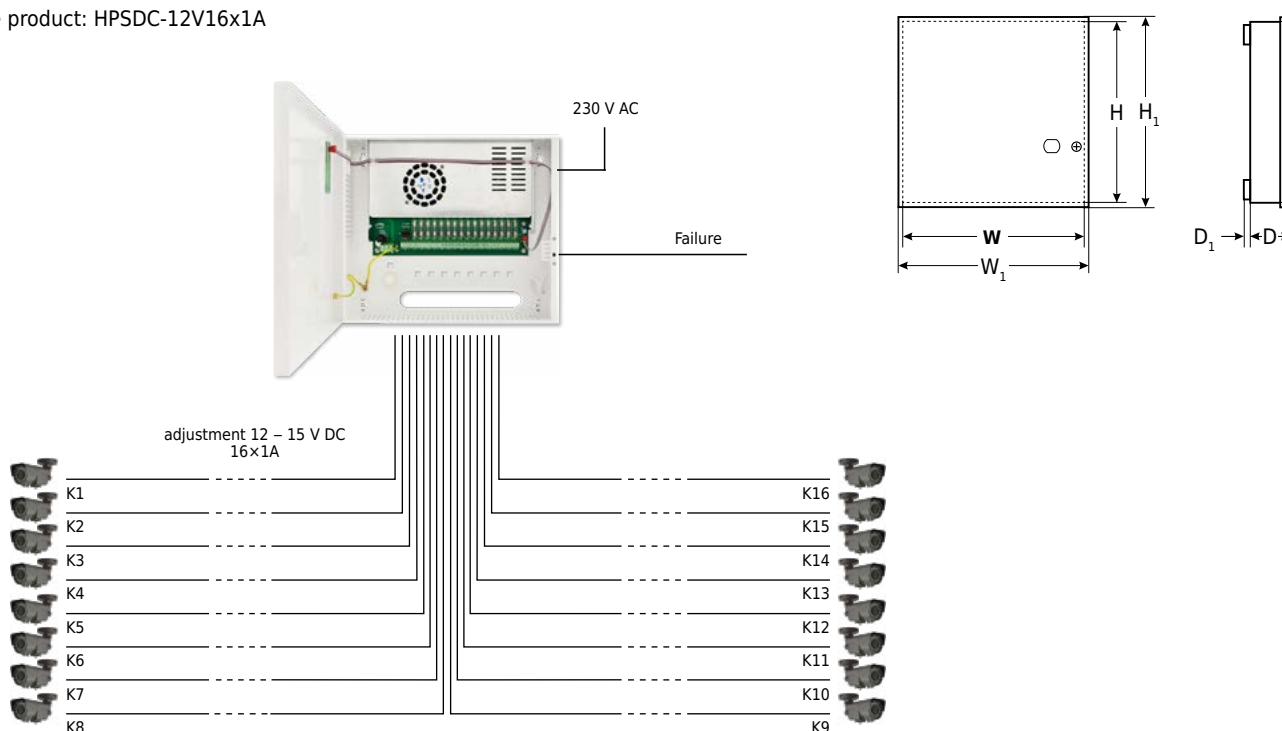
Removable hinges



Spacers (plastic) – 8mm

Code	Output voltage	Output current max.	Number of outputs	Fuse type	Technical output	Dimensions W×H×D+D ₁ [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
HPSDC-12V4x1A	12 V DC (12 – 15 V DC)	4A	4×1A	1,0A – glass fuse	✓	270×200×68+8 275×205
HPSDC-12V8x1A		7A	8×1A		✓	
HPSDC-12V16x1A		15A	16×1A		✓	300×258×78+8 305×262

Sample product: HPSDC-12V16x1A

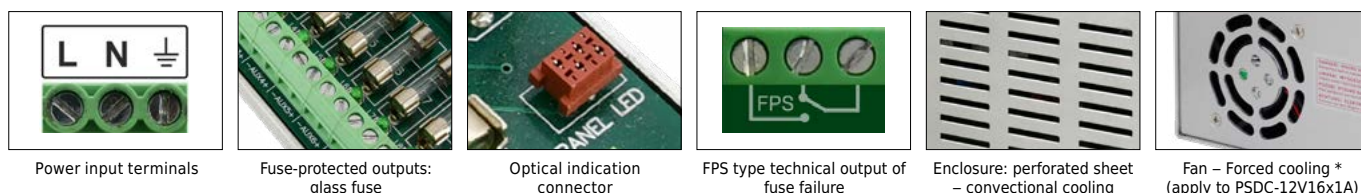


Enclosed multi-output power supply units 12 V DC PSDC series

- power supply: 200 – 240 V AC
- voltage adjustment range: 12 – 15 V DC
- fuse type: glass fuse
- FPS technical output, fuse failure – relay type: 1A@ 30 V DC / 50 V AC
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- optional equipment:
 - set of LED optical indication PKAZ168
 - DIN4 mounting plate (possibility of mounting power supplies on TH35 rail)
- warranty: 2 years

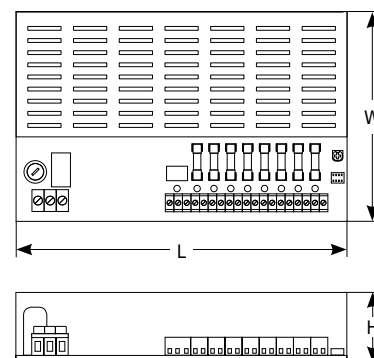
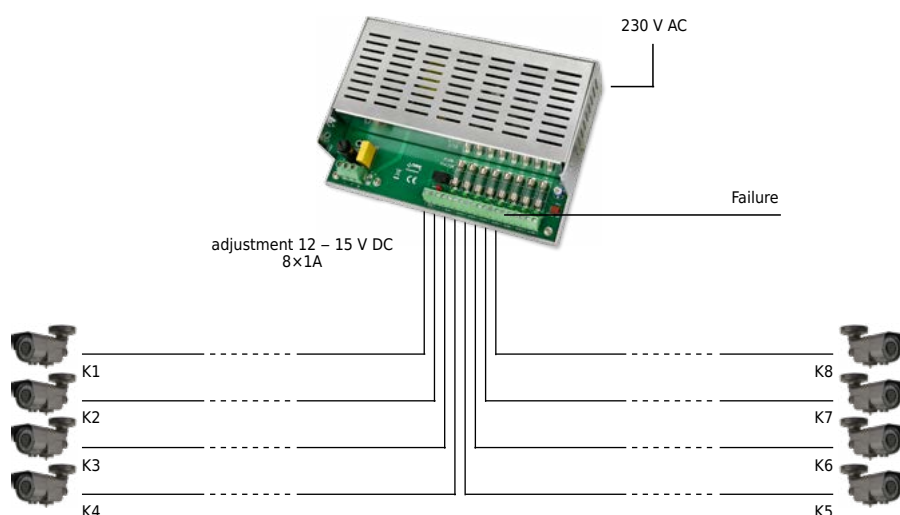


Sample product:
PSDC-12V8x1A

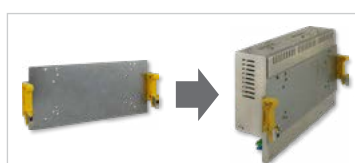


Code	Output voltage	Output current max.	Number of outputs	Fuse type	Technical output	Dimensions LxWxH [+/- 2mm]
PSDC-12V4x1A	12 V DC (12 – 15 V DC)	4A	4x1A	1,0A – glass fuse	✓	200x120x48
PSDC-12V8x1A		7A	8x1A		✓	204x141x52
PSDC-12V16x1A		15A	16x1A		✓	237x168x55

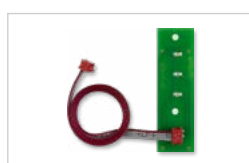
Sample product: PSDC-12V8x1A



Accessories:



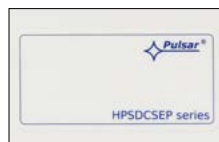
DIN4
Mounting plate (allows mounting
power supplies on TH35 rail)



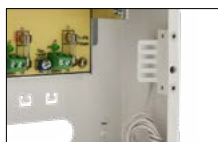
PKAZ168
Set for optical indication

Multi-output power supply units 12 V DC with adjustable output voltage and galvanic separation of each channel HPSDCSEP series

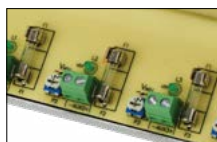
- power supply: 100 – 240 V AC
- 4 independent, galvanic separated outputs
- independent output voltage adjustment 12 – 15 V DC
- 4 independent outputs protected by 1A fuses
- LED optical indication
- fuse type: glass fuse
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - anti-sabotage protection (unwanted enclosure opening)
- notes:
 - surface mounted enclosure, closing – screwed (lock assembly possible)
- warranty: 2 years



LED optical indication



Tamper switch detecting enclosure opening – 1 piece



Fuse-protected outputs: glass fuse



V_{ADJ} potentiometer, output voltage adjustment 12 – 15 V DC

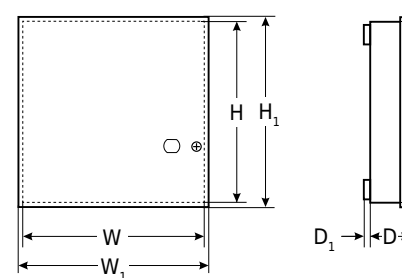
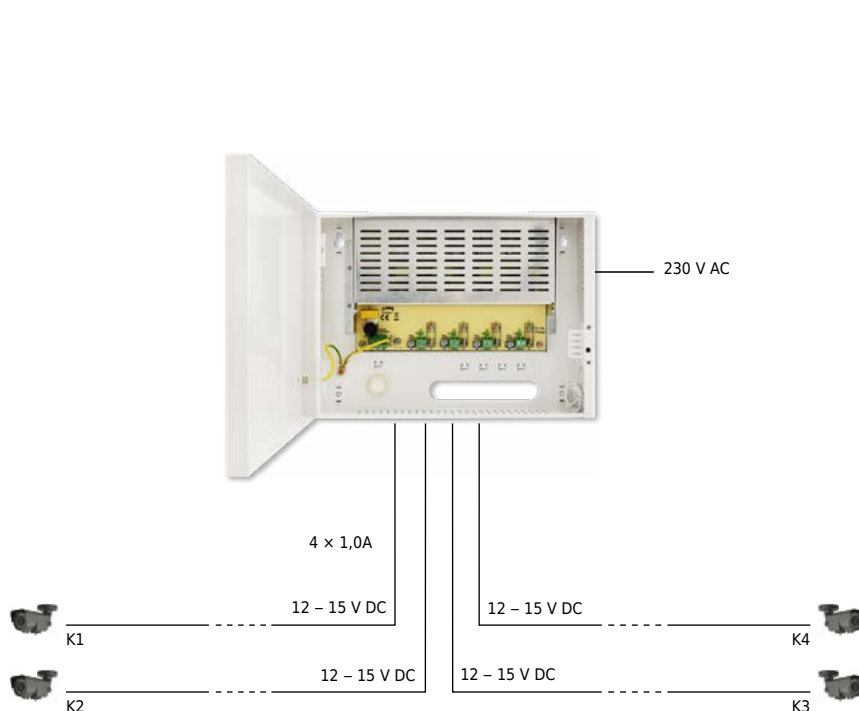


Removable hinges



Spacers (plastic) – 8mm

Code	Output voltage (adjustable)	Output current	Fuse	Dimensions W×H×D+D ₁ [+/- 2mm]
HPSDCSEP-12V4x1A	4 adjustable outputs (12 – 15 V DC)	4 × 1A	1A	270×200×67+8

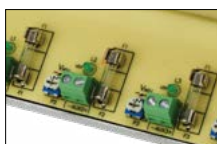


Multi-output power supply units 12 V DC, enclosed with adjustable output voltage and galvanic separation of each channel PSDCSEP series

- power supply: 100 – 240 V AC
- power supply output 4 x 12 V DC/1A
- 4 independent, galvanic separated outputs
- independent output voltage adjustment 12 – 15 V DC
- 4 independent outputs protected by 1A fuses
- LED optical indication
- fuse type: glass fuse
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- optional equipment:
 - DIN4 mounting plate (possibility of mounting power supplies on TH35 rail)
- warranty: 2 years



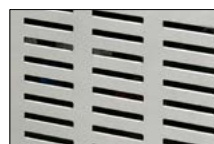
Power input terminals



Fuse-protected outputs:
glass fuse

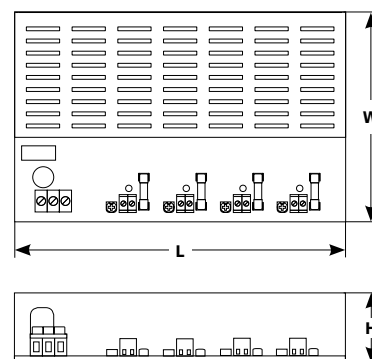
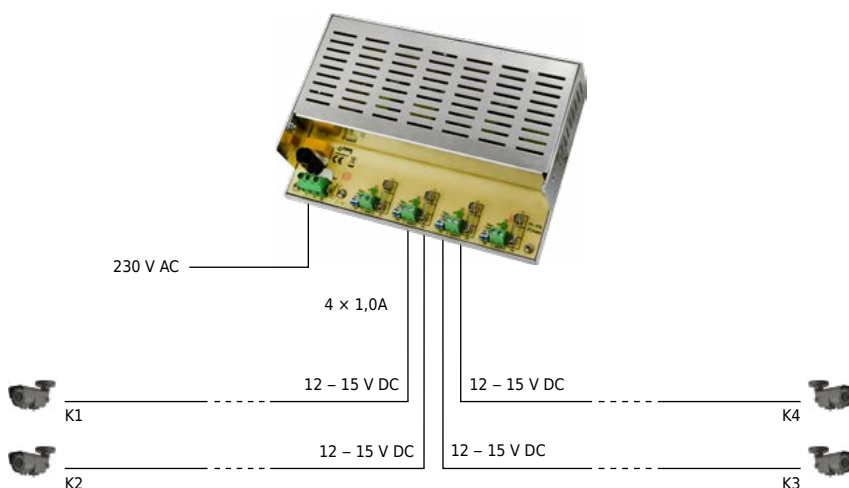


V_{ADJ} potentiometer,
output voltage adjustment
12 – 15 V DC

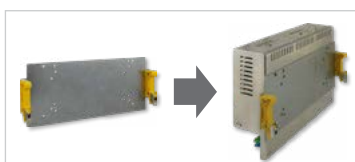


Enclosure, perforated sheet
– convective cooling

Code	Output voltage (adjustable)	Output current	Fuse	DIN adapter	Dimensions L×W×H [± 2mm]
PSDCSEP-12V4x1A	4 adjustable outputs (12 – 15 V DC)	4 × 1A	1A	DIN4	204×141×52



Accessories:



DIN4

Mounting plate (allows mounting power
supplies on TH35 rail)

Multi-output power supply units ~24 V AC PSAC series

- power supply: 230 V AC / 50Hz
- output voltage: ~24 V AC or ~27 V AC
- fuse type: glass fuse / PTC
- technical outputs OC type:
 - FPS – indication of fuse failure
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OHP overhear protection
 - surge protection
 - anti-sabotage protection
- notes:
 - surface mounted enclosure, closing – screwed
- warranty: 5 years



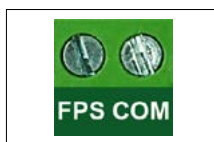
LED optical indication



Tamper switch detecting enclosure opening – 1 piece



Fuse type: glass fuse / PTC



FPS OC type technical output of fuse failure

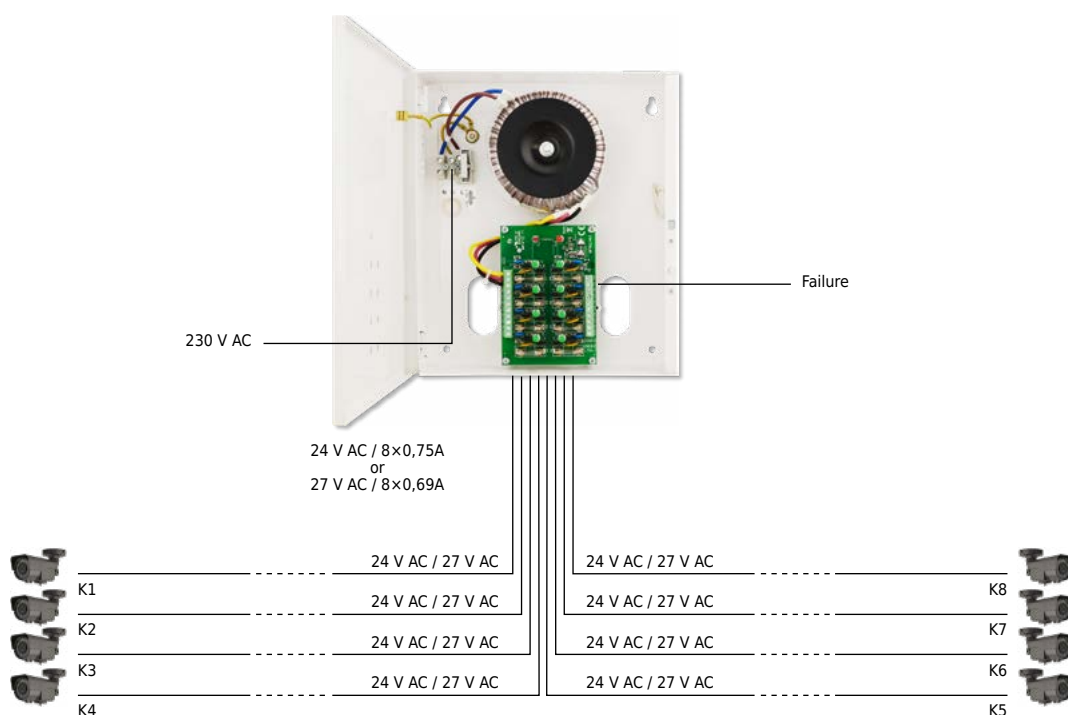
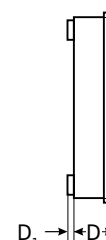
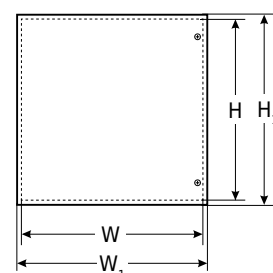


Removable hinges



Spacers (plastic) – 8mm

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



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

- power supply: 230 V AC / 50Hz
- fuse type: glass fuse
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OHP overheat protection
 - anti-sabotage protection
- notes:
 - hermetic enclosure IP65, ABS
 - surface mounted enclosure, closing – screwed
 - glands mounted – 2 pcs.
- warranty: 2 years

* depending on model



Sample product:
PSACH01246



Tamper switch detecting
enclosure opening – 1 piece



Gasket
Closing – screwed
– 4 pieces



Mounting plate



Hermetic enclosure IP65
Material: ABS

Code	Output voltage	Output current	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	24 V AC or 27 V AC	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			

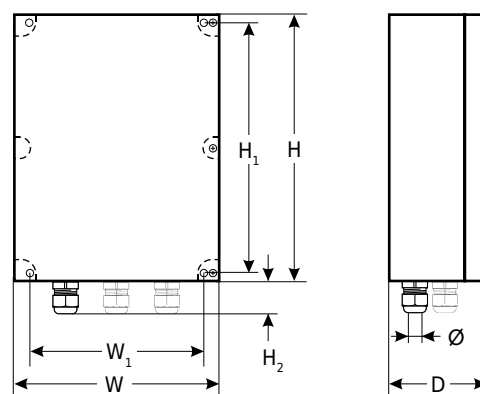
Sample product: PSACH01246



230 V AC

24 V AC / 1×6A
or
27 V AC / 1×5,5A

K1



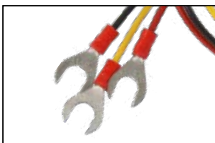
Battery balancer 24V AWZ643

Destination :
 AWZ643 24V balancer is designed for voltage equalisation in 12V batteries (AGM, SLA) connected in series or series-parallel. The basic working principle of the module is to transfer energy from battery with higher voltage to battery with lower voltage. Equalising the charge in the batteries is beneficial and protects against overcharging or undercharging, which leads to a reduced service life. Module has LEDs optical operation indication.

- Power supply: 15 – 30 V AC
- battery 2x 17 – 240 Ah (no space for battery)
- LED optical indication
- notes:
 - possibility of balancing batteries combined in 24V/36V/48V sets
- warranty: 2 years

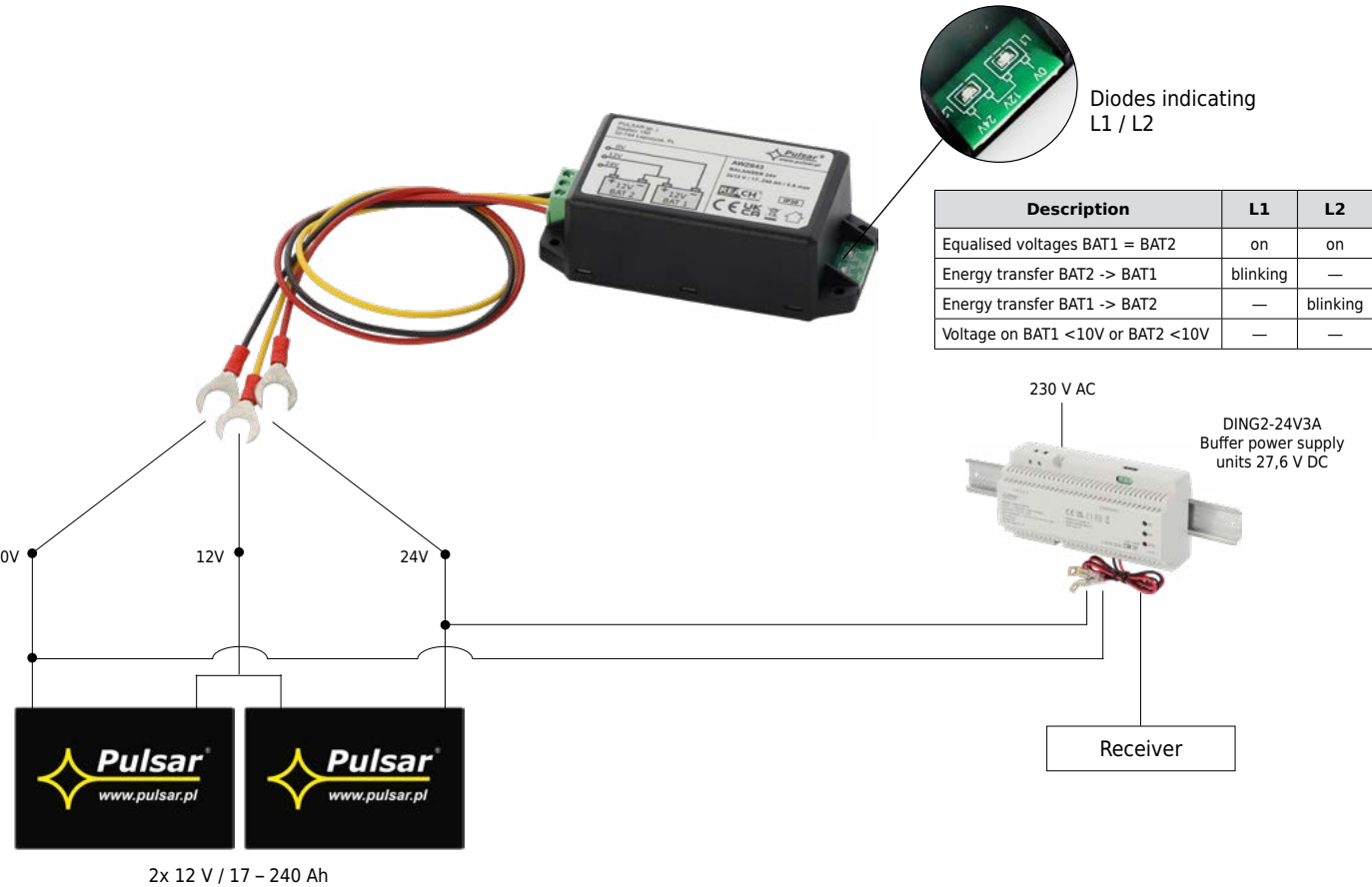


LEDs – signaling the operating status



Cables for 2x12V battery connection

Code	Power supply	Battery	LED optical indication	Dimensions L×W×H [+/- 2mm]
AWZ643	15 – 30 V DC	2x 17 – 240 Ah	LEDs: L1 / L2	110×53×35 [+/- 2 mm]



* Possibility of balancing batteries combined in 24V/36V/48V sets (more details in instruction).

Battery controllers: 12 V DC / 24 V DC / 48 V DC AWZ series

- cooperation with 13.8 V DC / 27.6 V DC / 54 V DC uninterruptible power supply units *
- microprocessor-based automation system
- 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 type – NO/NC/COM
- acoustic indication of failure – BUZZER – possibility of switching on / off
- optical indication of failure – LED
- warranty: 2 years

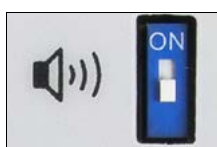
* depending on model



Sample product:
AWZ632



Test button at front panel



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



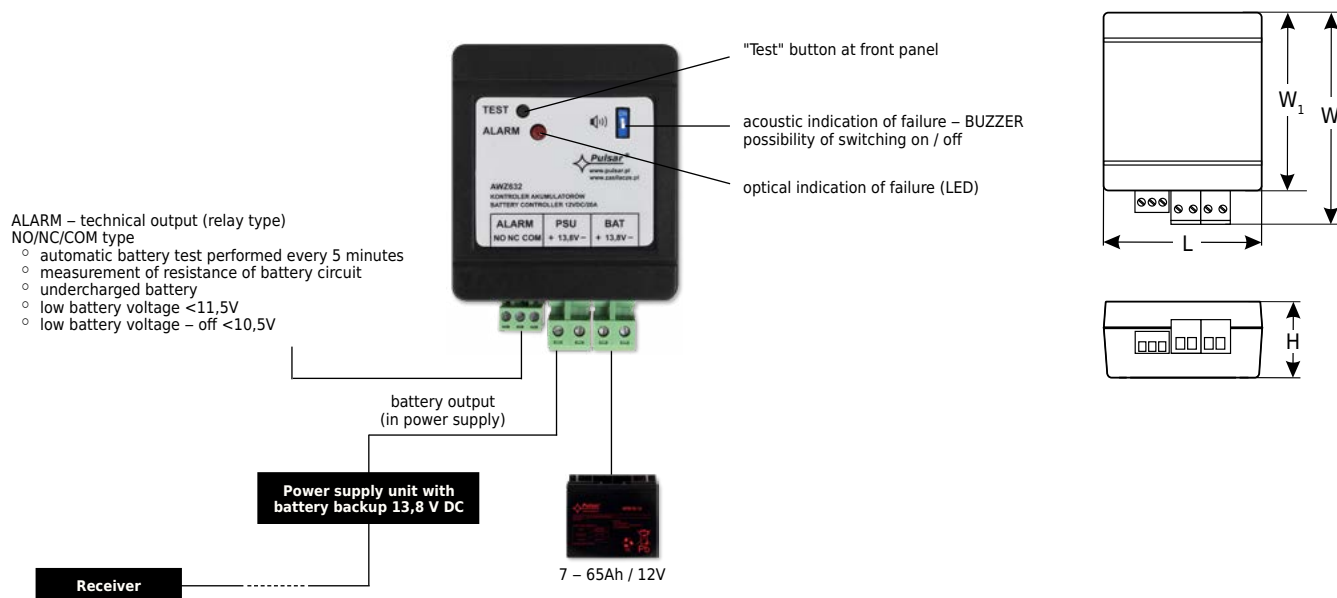
Technical output of failure
– relay type – NO/NC/COM



– Connector of the charging
circuit
– Battery connectors

Code	Fuse type	Output voltage	Current (max.)	Maximum total capacity	Technical outputs of alarm	Dimensions L×W×H [+/- 2mm]
AWZ632	1x glass fuse – 25A	13,8 V DC	20A	65Ah	✓	80×108×38
AWZ633	1x glass fuse – 15A	27,6 V DC	10A	40Ah		
AWZ634	1x glass fuse – 7,5A	54 V DC	5A	18Ah		

Sample product: AWZ632



Receiver e.g.:



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

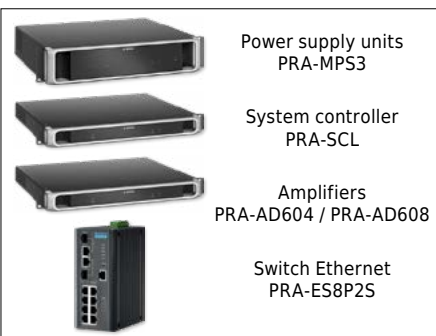
RACK cabinet system RACK19" DSO-PRA for PRAESENSA system by BOSCH



VAS cabinets



Devices VAS: BOSCH – PRAESENSA



Fans, thermostat, batteries, wheels



Protection terminal block,
230 V AC voltage distribution terminal,
Indication panel



Firefighter's microphone power supply unit,
Enclosure of firefighter's microphone,
End of Line (EOL) Supervision Board



Configuration software for DSO-PRA – Bosch PRAESENSA



Ethernet communication (BOSCH)



DSOP24V Power System for PAVIRO system by BOSCH



MTP Gold Medal
Securex 2018

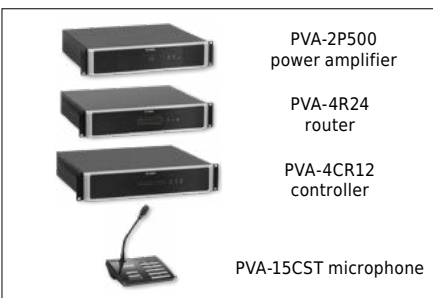


In accordance with
EN54-4, EN12101-10 standard

VAS cabinets



Devices VAS: BOSCH – PAVIRO



Fans, thermostat, batteries, wheels



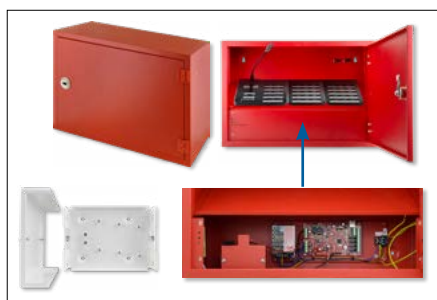
Power supplies for 350W – 1000W
Voice Alarm Systems



Protection terminal block,
230 V AC voltage distribution terminal,
Indication panel



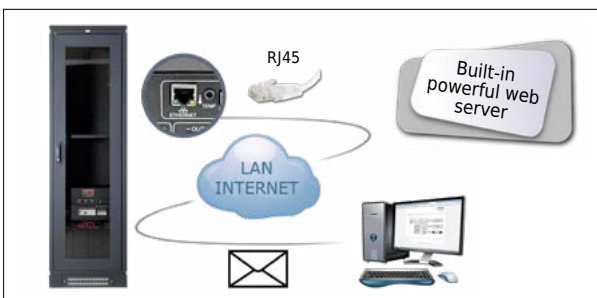
Firefighter's microphone power supply unit,
Enclosure of firefighter's microphone,
End of Line (EOL) Supervision Board



Configuration software for DSOP24V – Bosch



Ethernet communication



Power supplies for DIN rail with battery backup 13,8 / 27,6 V DC

Compliant with EN50131-6 standard for alarm systems – GRADE 1, 2

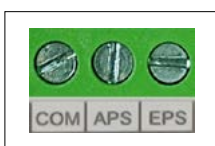
Compliant with EN60839-11 standard for access control

DING2 series

- power supply 200 – 240 V AC
- impulse voltage stabilizer
- compliance with norm EN50131-6 in grade 1, 2 and II environment class
- compliance with norm EN60839-11
- technical outputs OC type:
 - EPS – 230V power failure AC
 - APS – battery failure
- function START allows running PSU from battery circuit
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- possibility of mounting power supplies on TH35 rail
- surface mounted – 2 holes
- warranty: 2 years



Sample product:
DING2-24V2A



Technical outputs OC type



Function START allows running PSU from battery circuit



Battery connectors



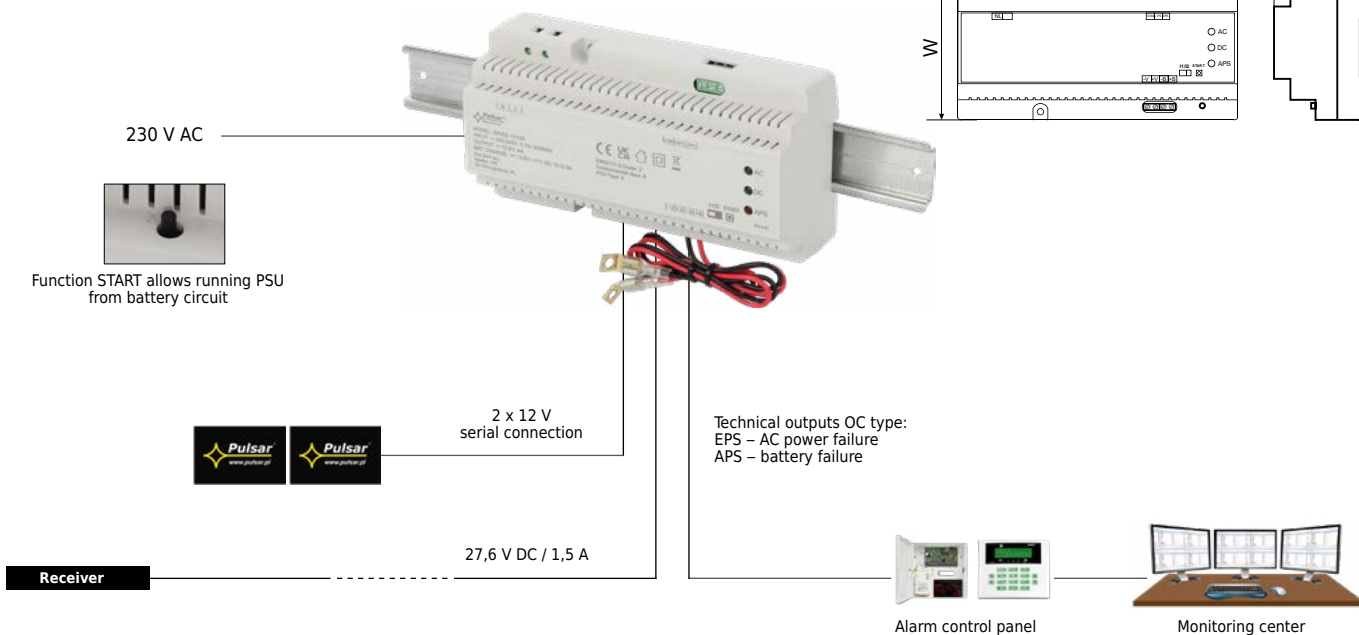
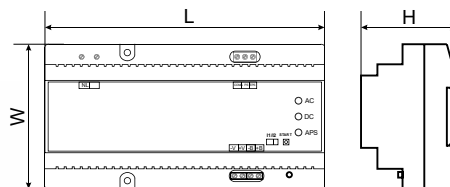
LED optical indication



Mounting on a DIN rail (TH35)

Code	Output voltage	Total output current with charging	Battery charging current	Dimensions L×W×H [+/- 2mm]
DING2-12V2A	13,8 V DC	2,5A	0,5A	106×91×60
DING2-12V3A		3,5A	0,5A / 1A	176×91×60
DING2-12V5A		5,0A	1A / 2A	
DING2-24V2A	27,6 V DC	2,0A	0,5A / 1A	
DING2-24V3A		3,0A		

Sample product: DING2-24V2A



Receiver e.g.:



Camera



Detector



Indicator



Electromagnetic lock



Electric strike



Intercom



Video intercom

Accessories e.g.:



Technical outputs module

Plug-in type power supplies 12 V DC PSA series

- power supply: 100 – 240 V AC
- cable length DC – 1,45 m
- output – JACK plug – DC 5.5/2.1 – female
- standby power <0,1W / <0,3W *
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection (AC input)
- warranty: 2 years

* depending on model



Sample product:
PSA12020



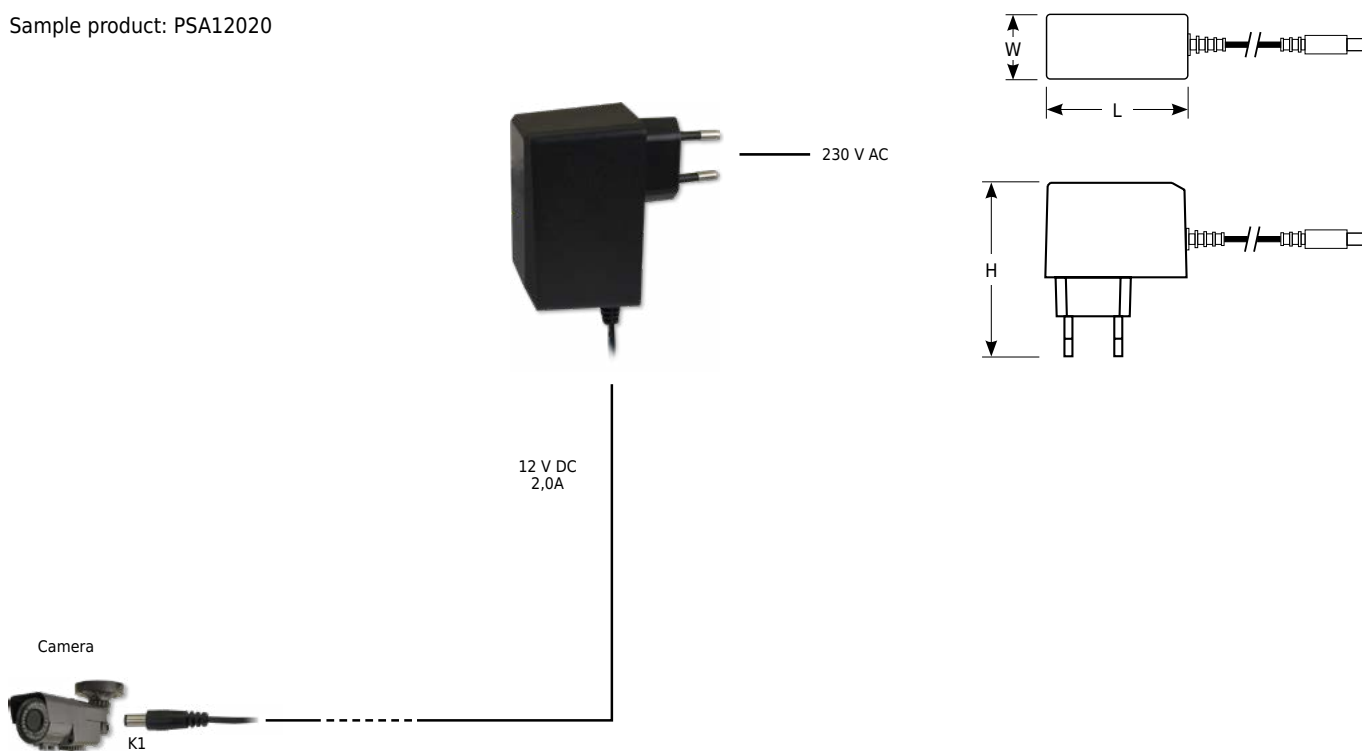
230 V AC plug



DC plug 5.5/2.1
female

Code	Output voltage	Output current	Dimensions L×W×H [+/- 2mm]
PSA12005	12 V DC	0,5A	59×39×65
PSA12010		1,0A	64×28×78
PSA12020		2,0A	78×36×85
PSA12030		3,0A	90×36×94

Sample product: PSA12020



Desktop type power supplies 12 V DC / 15 V DC / 52 V DC PSD series

- power supply: 90 – 264 V AC
- standby power <0,3W <0,5W *
- set includes 230 V AC 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

* depending on model



Sample product:
PSD12050



230 V AC plug



DC plug 5.5/2.1
female



LED optical indication

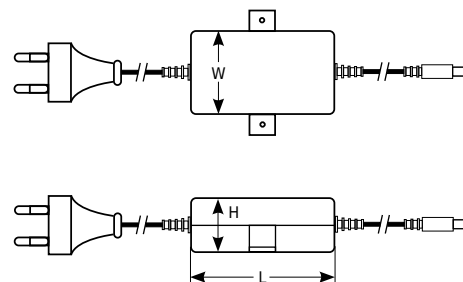


Mounting brackets

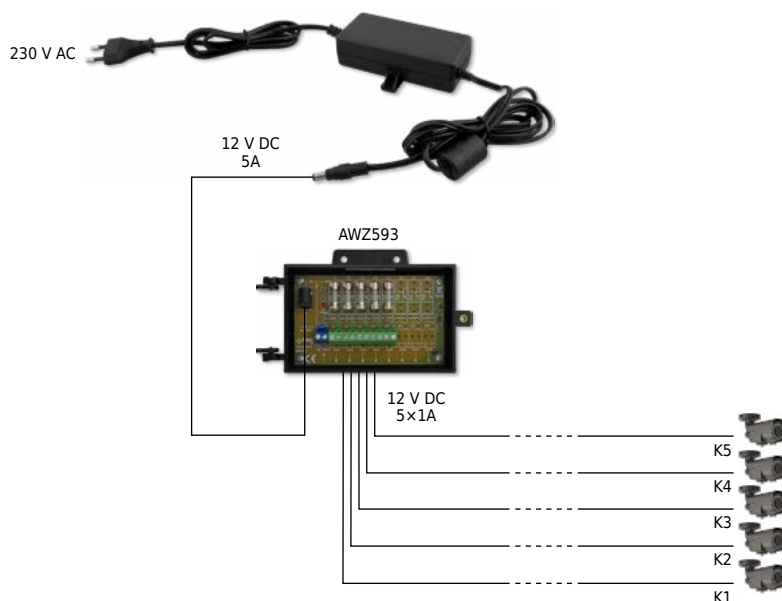


Suppression filter

Code	Output voltage	Output current	LED indication	Dimensions L×W×H [+/- 2mm]
PSD12010	12 V DC	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	15 V DC	4,0A	✓	116×54×35
PSD520115	52 V DC	1,15A	✓	116×54×35
PSD520175		1,75A	—	132×61×32
PSD520230		2,3A	✓	172×73×34



Sample product: PSD12050



Power supplies 12 V DC / 13,8 V DC

IP67 hermetic enclosure, epoxy encapsulated

PSC series

- power supply: 90 – 264 V AC
- power supply is not fitted with 230 V AC plug
- 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
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - surge protection (AC input)
- warranty: 2 years

* depending on model



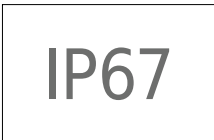
Sample product:
PSC12010



DC plug 5.5/2.1 female *



Suppression filter



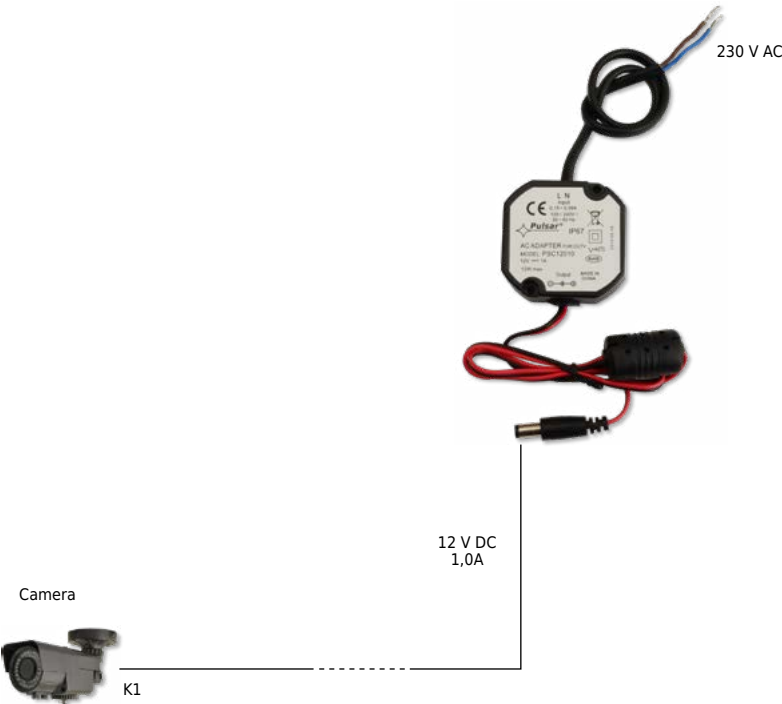
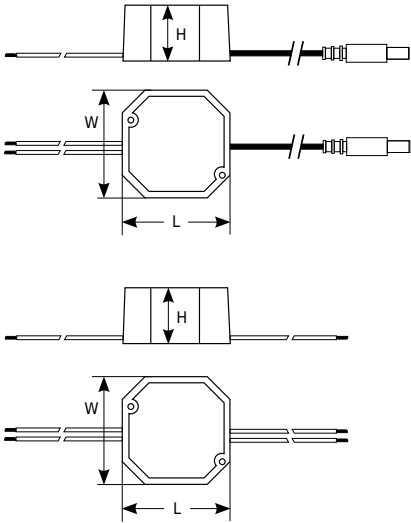
Hermetic enclosure IP67



Epoxy encapsulated

Code	Output voltage	Output current	Notes	Dimensions L×W×H [+/- 2mm]
PSC12010	12 V DC	1,0A	DC output – JACK plug – DC 5.5/2.1 – female	48×50×25
PSC12015		1,5A		58×58×28
PSC13008	13,8 V DC	0,8A	—	48×50×25

Sample product: PSC12010



Desktop type power supplies 52 V DC PSP series

- power supply: 100 – 240 V AC
- power supply outputs: 52 V DC/0,3A – PoE/RJ45
- compliance with IEEE 802.3af standard
- LED optical signalization
- protections:
 - OLP overload protection
 - overvoltage protection (AC input)
- notes:
 - designed for 10/100/1000 Mb/s network
- warranty: 2 years



RJ45 connectors
– Input / output



Ethernet input

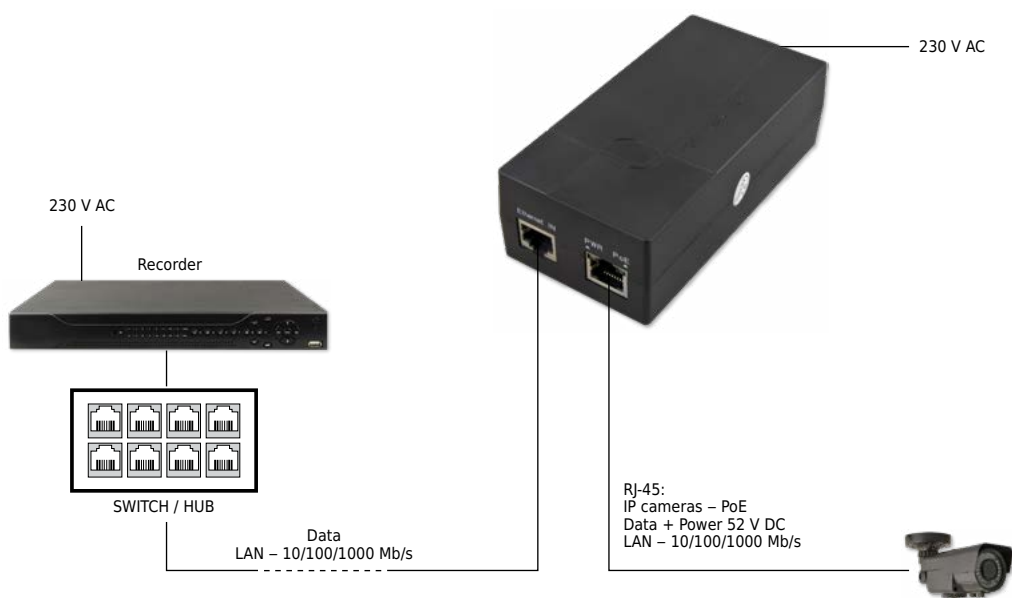
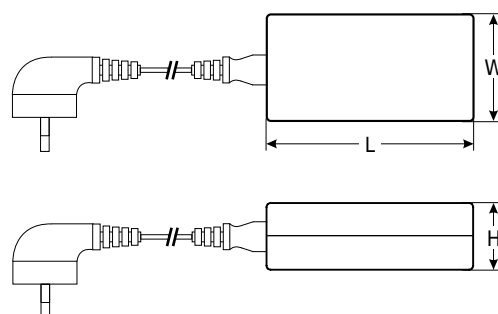


PoE output



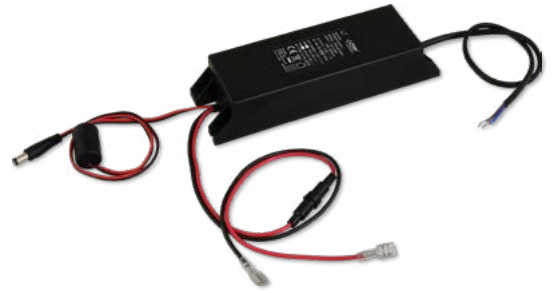
LED optical indication

Code	Output voltage	Output current	Compliance with / IEEE 802.3af standard	Dimensions L×W×H [± 2mm]
PSP52003	52 V DC	0,3A	✓	119×61×38

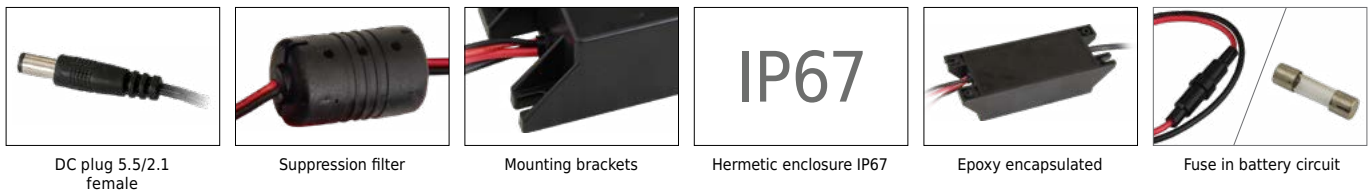


Desktop type power supplies with battery backup 13,8 V DC IP67 hermetic enclosure, epoxy encapsulated PSCLB series

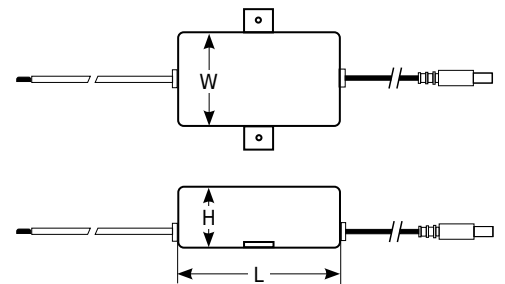
- power supply: 90 – 264 V AC
- power supply is not fitted with 230 V AC plug
- IP67 hermetic enclosure – epoxy encapsulated
- cable length DC – 0,5m
- DC output – JACK plug – DC 5.5/2.1 – female
- deep discharge battery protection (UVP)
- protections:
 - SCP short circuit protection
 - OLP overload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



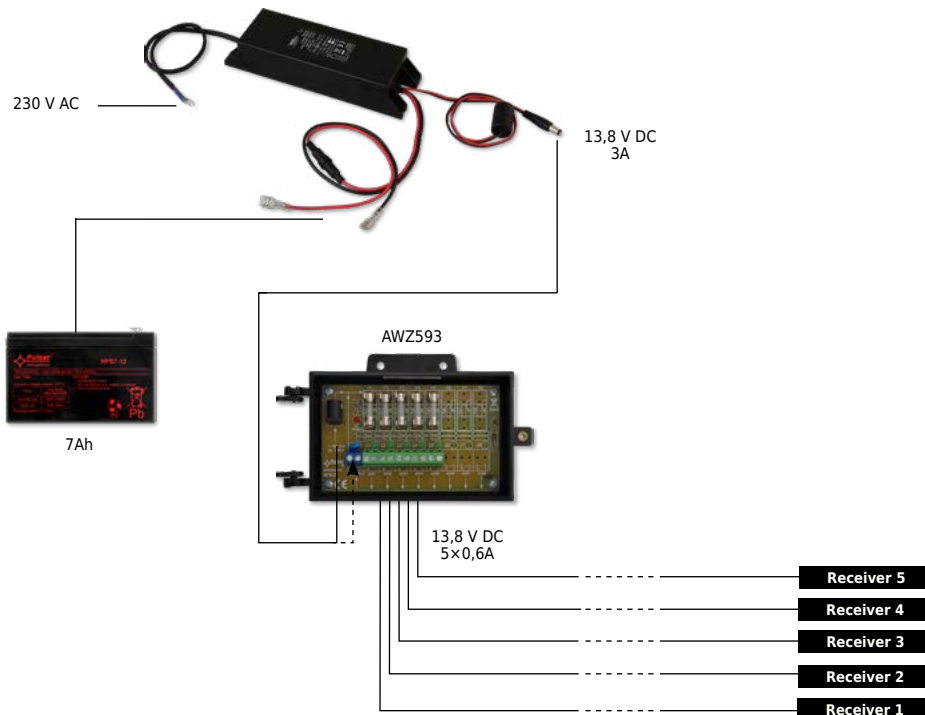
Sample product:
PSCLB13830



Code	Output voltage	Total current	Battery charging current	Dimensions LxWxH [+/- 2mm]
PSCLB13820	13,8 V DC	2,3A	0,3A	150x56x34
PSCLB13830		3,3A		178x56x34



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	Set of passive video HD transmitters with BNC plug on cable
 P-TR1HD3	HD transmitters (passive)	BNC plug / self clinching terminal	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	Set of passive video HD transmitters and power

PoE adapters

 P-POE1	PoE Adapter	RJ45 socket / RJ45 plug plug JACK 5.5/2.1	Set of adapters with RJ45 and 5.5/2.1 connectors
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Spiltter PoE

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

Converters

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

Extenders PoE

desktop / for DIN rail

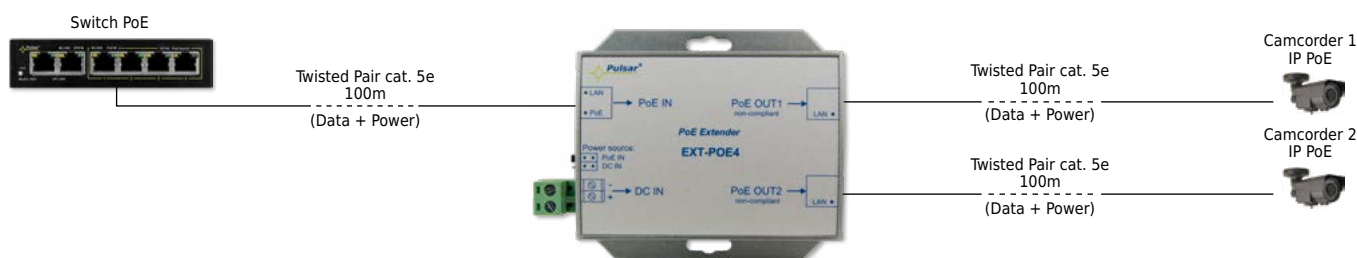
- PoE input: PoE IN – compliant with IEEE 802.3af/at/bt *
- PoE output: PoE OUT – compliant with IEEE 802.3af/at *
- increases Ethernet and PoE power range by 100 meters
- supports 10/100 Mb/s and 10/100/1000 Mb/s networks
- LED optical signalization
- protections:
 - SCP short circuit protection
 - surge protection (PoE input)
 - OLP overload protection
- warranty: 2 years

* depending on model



Code	Additional power input	RJ45 input / compliant with IEEE 802.3.....	RJ45 output / compliant with IEEE 802.3.....	Output power [W]	Total power [W]	Supports networks	Installation		Dimensions LxWxH [± 2mm]
							DIN rail	Mounting screws	
EXT-POE2	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af PoE OUT2 / compliant – af	15,4W / port 15,4W / port	20W	10/100 Mb/s	— /	✓	81x77x26
EXT-POEG2	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af PoE OUT2 / compliant – af	15,4W / port 15,4W / port	20W	10/100/1000 Mb/s	— /	✓	103x50x29
EXT-POE4	DC IN 44 – 57 V DC	PoE IN / compliant – af/at	PoE OUT1 / not compliant PoE OUT2 / not compliant	15,4W / port 15,4W / port	20W	10/100 Mb/s	— /	✓	81x77x26
EXT-POE3DIN	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af PoE OUT2 / compliant – af PoE OUT3 / compliant – af	15,4W / port 15,4W / port 15,4W / port	15W	10/100 Mb/s	✓ /	✓	50x23x81
EXT-POEG3DIN	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af PoE OUT2 / compliant – af PoE OUT3 / compliant – af	15,4W / port 15,4W / port 15,4W / port	20W	10/100/1000 Mb/s	✓ /	✓	50x23x81
EXT-POE3	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af/at PoE OUT2 / compliant – af/at PoE OUT3 / not compliant	30W / port 30W / port 15,4W / port	30W	10/100 Mb/s	— /	✓	81x77x26
EXT-POEG5	DC IN 48 – 57 V DC	PoE IN / compliant – af/at/bt	PoE OUT1 / compliant – af/at PoE OUT2 / compliant – af/at PoE OUT3 / compliant – af/at PoE OUT4 / compliant – af/at	30W / port 30W / port 30W / port 30W / port	40W – 60W (depends on way of supplying)	10/100/1000 Mb/s	— /	✓	118x85x28

Sample product: EXT-POE4



Increases Ethernet and PoE power range by 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
- supports 10/100 Mb/s networks
- LED optical signalization
- protections:
 - SCP short circuit protection
 - surge protection (PoE input)
 - OLP overload protection
- notes:
 - hermetic enclosure IP56
 - UV resistance
- warranty: 1 year

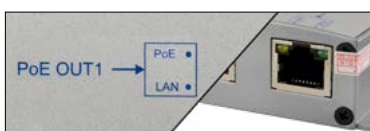
* depending on model



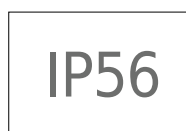
Sample product:
EXT-POE2H



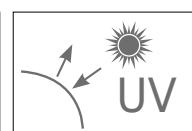
PoE IN input



PoE OUT output



Hermetic enclosure IP56



UV resistance

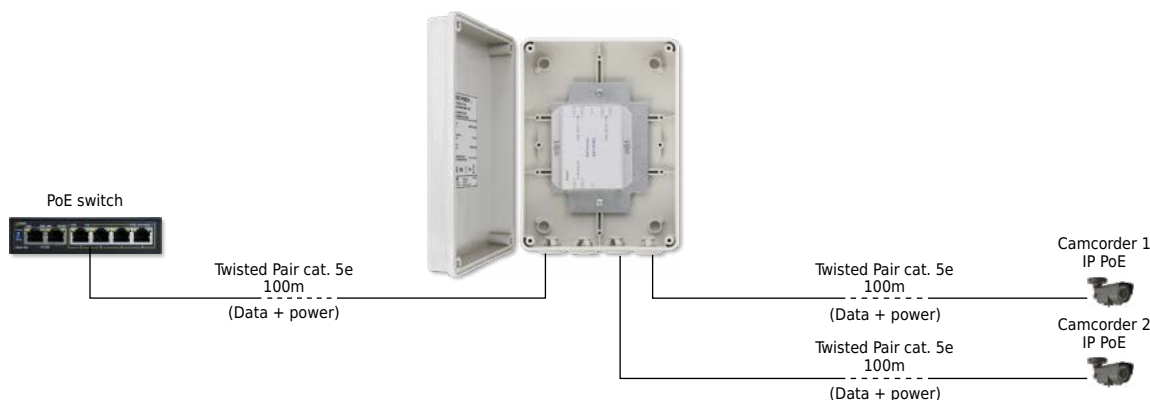
Applies to: EXT-POE4H



Additional power input:
44 – 57 V AC
(screw connection)

Code	Additional power input	RJ45 input / compliant with IEEE 802.3.....	RJ45 output / compliant with IEEE 802.3.....	Output power [W]	Total power [W]	Supports networks	Installation		Dimensions LxWxH [±/- 2mm]
							DIN rail	Mounting screws	
EXT-POE2H	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af PoE OUT2 / compliant – af	15,4W / port 15,4W / port	20W	10/100 Mb/s	— /	✓	81x77x26
EXT-POE3H	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af PoE OUT2 / compliant – af PoE OUT3 / not compliant	20W / port 20W / port 15,4W / port	30W	10/100 Mb/s	— /	✓	81x77x26
EXT-POE4H	DC IN 44 – 57 V DC	PoE IN / compliant – af/at	PoE OUT1 / not compliant PoE OUT2 / not compliant	15,4W / port 15,4W / port	20W	10/100 Mb/s	— /	✓	81x77x26

Sample product: EXT-POE2H



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

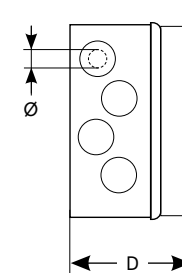
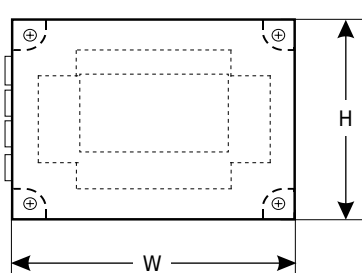
Accessories:



OZB2



Sample assembly



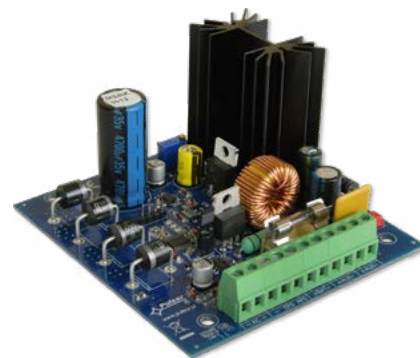
Switch mode power supply modules with battery backup 13,8 V DC

Compliant with EN50131-6 standard for alarm systems – GRADE 1, 2

Compliant with EN60839-11 standard for access control

MSRK series

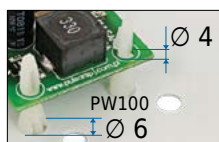
- impulse voltage stabilizer
- compliance with norm EN50131-6 in grade 1, 2 and II environment class
- compliance with norm EN60839-11
- supply voltage: external transformer required 20 – 22 V AC
- battery charging and maintenance control
- battery output protections: short circuit protection and reverse polarity connection
- protections:
 - SCP short circuit protection
 - OLP overload protection
- technical outputs OC type:
 - EPS – 230 V power failure AC
 - APS – battery failure indication
- deep discharge battery protection (UVP)
- adjustable time indicating AC power failure
- function START allows running PSU from battery circuit
- warranty: 5 years



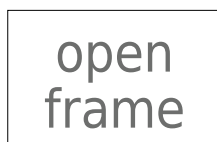
Sample product:
MSRK3012



Power input/output terminals



Mounting: PW100 distance pins



Construction – „open frame“



START button

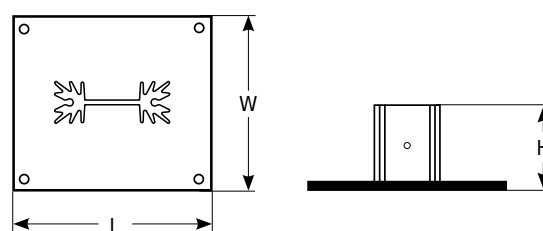


Technical outputs OC type: EPS, APS



Optical indication connector

Code	Output current	Total output current with charging	Battery charging current	Technical outputs	Deep discharge battery protection	Dimensions L×W×H [± 2mm]
MSRK2012	13,8 V DC	2A	0,2A / 0,5A	✓	✓	86×73×42
MSRK3012		3A	0,5A / 1,0A	✓	✓	94×98×57



Accessories:



Transformers of **TRP, TRZ** series



AWZ642
Technical outputs – relay
3× OC → 3× NO/NC/C



PKAZ168
Set for optical indication
(three LEDs indicating status of power supply)

DC/DC voltage converters

DC/DC series

- 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” / enclosed / hermetic / desktop / in plastic enclosure *
- warranty: 2 years

* depending on model



Open frame



Enclosed



**Desktop
hermetic - IP67**



Desktop



**In plastic
enclosure**

Code	Input voltage	Output voltage	Output current max.	Power	Topology	Notes
DCDC-ADJ2A-SD	8 – 28 V	4,5 – 19 V	2 A	24 W	Step-down converter	desktop
DC/DC05	12 – 30 V	12 V	0,5 A	6 W	Step-down converter	output: DC plug 5.5/2.1 female, in plastic enclosure
DC/DC05-J	12 – 30 V	12 V	0,5 A	6 W	Step-down converter	
DCDCH-12V1A-SD	18 – 30 V	12 V	1 A	12 W	Step-down converter	output: DC plug 5.5/2.1 female, IP67 hermetic enclosure, epoxy encapsulated
DCDCH-12V2A-SD	18 – 30 V	12 V	2 A	24 W	Step-down converter	
DCDC-12V2A-SD	20 – 60 V	12 V	2 A	24 W	Step-down converter	desktop
DCDC-12V5A-SD	20 – 60 V	12 V	5 A	60 W	Step-down converter	enclosed
DCDC-12V2A-SE	10 – 30 V	12 V	2 A	24 W	Step-up/step-down converter	desktop
DCDC-12V4A-SE	10 – 18 V	12 V	4 A	48 W	Step-up/step-down converter	enclosed
DCDC-24V1A-SE	10 – 30 V	24 V	1 A	24 W	Step-up/step-down converter	desktop
DCDC-24V2A-SE	18 – 30 V	24 V	2 A	48 W	Step-up/step-down converter	enclosed
DC/DC52230	18 – 28 V	52 V	2,3 A	120 W	Step-up converter	Technical output of battery failure, open frame

DC/DC voltage converters – 12 V DC hermetic IP67, epoxy encapsulated DCDCH series

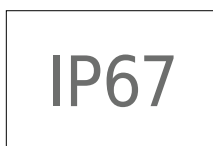
- power supply: 18 – 30 V DC
- hermetic enclosure IP67, ABS, epoxy encapsulated
- length of DC input cable: 0,3m
- length of DC output cable: 0,5m + DC plug 5.5/2.1 female
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - against reverse input voltage polarity
- notes:
 - mounting: 2 Ø3,2mm holes
- warranty: 2 years



Sample product:
DCDCH-12V2A-SD



DC plug 5.5/2.1
female

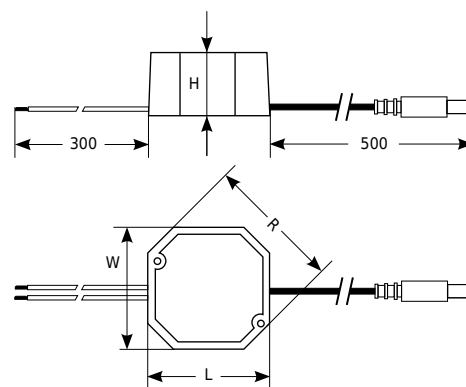


Hermetic enclosure IP67



Epoxy encapsulated

Code	Input voltage	Output voltage	Output current	Dimensions L×W×H / R [+/- 2mm]
DCDCH-12V1A-SD	18 – 30 V DC	12 V DC	1A	48×50×25 / 56
DCDCH-12V2A-SD			2A	58×58×28 / 66



DC/DC voltage converters – 12 V DC DC/DC series – in plastic enclosure

- power supply: 12 – 30 V DC
- 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

* depending on model



Sample product:
DC/DC05-J



Screw connection *



5.5/2.1 JACK socket – male *

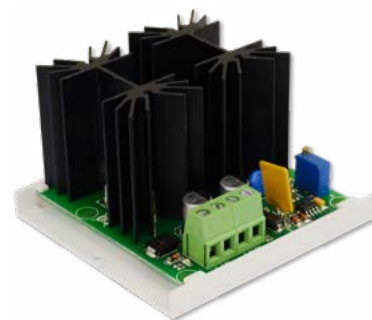


DC plug 5.5/2.1 female

Code	Input voltage	Output voltage	Output current	Notes		Dimensions L×W×H [+/- 2mm]
				input	output	
DC/DC05	12 – 30 V DC	12 V DC	0,5A	screw connection	DC plug 5.5/2.1 female	50×20×18
DC/DC05-J				5.5/2.1 JACK socket – male		

Voltage reducer – linear 13,8 V DC → 12 V DC RN series

- supply voltage: 12 – 14 V DC
- voltage adjustment range: $11V \div U_{IN}$
- linear voltage regulator
- lossless conductivity below stabilisation threshold
- protections:
 - SCP short circuit protection
 - OLP overload protection
- installation:
 - screw, mounting pins or adhesive tape
- warranty: 2 years



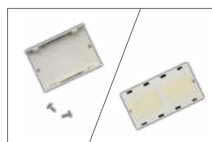
Power input
terminals DC



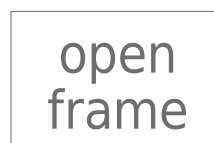
Power output
terminals DC



Potentiometer,
adjustable voltage

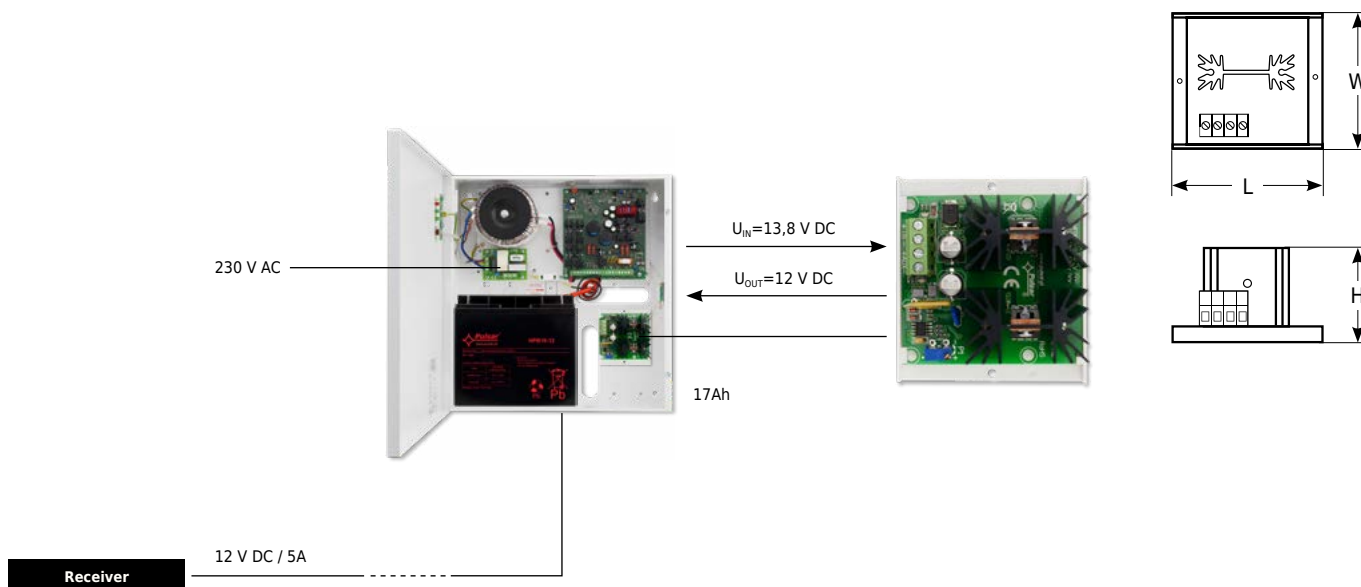


Installation:
– mounting screws
– adhesive tape



Construction
– „open frame”

Code	Input voltage	Output voltage (adjustment)	Output current	Dimensions L×W×H [+/- 2mm]
RN500	13,8 V DC (12 – 14 V DC)	12V ($11V \div U_{IN}$)	5,0A	76×70×45



Receiver e.g.:



Camera



Detector



Indicator



Electromagnetic
lock



Electric strike



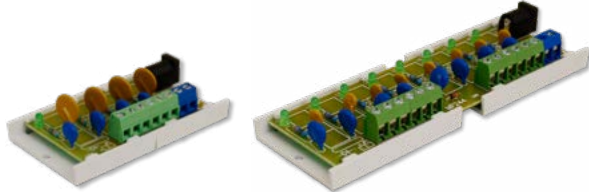
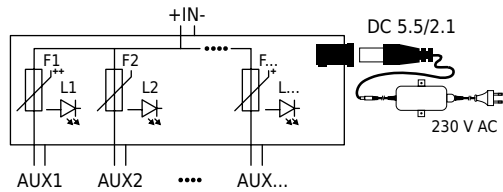
Intercom



Video intercom

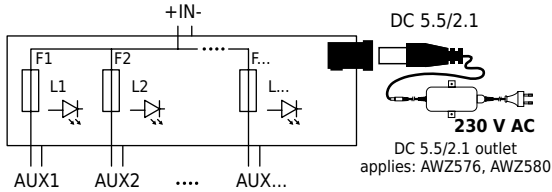
Fuse modules

Distribution – PTC

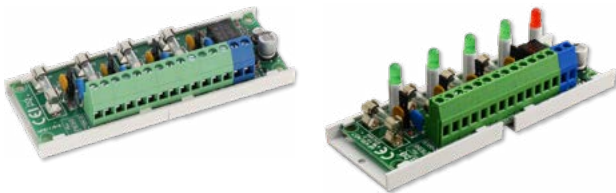
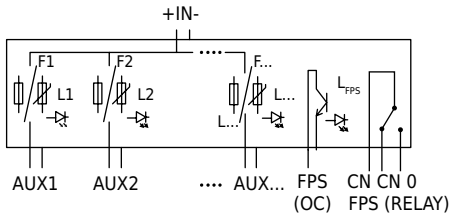



Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Fuse PTC	DC 5.5/2.1 socket	Dimensions L×W×H [+/- 2mm]	
AWZ575	10 – 30 V DC	2 / 4	1mm²	4×1,0A	✓	✓	80×43×21	
AWZ577		2 / 8		8×0,3A	✓	✓	124×43×21	
AWZ578				8×0,5A	✓	✓		
AWZ579				8×1,0A	✓	✓		

Distribution – glass fuse

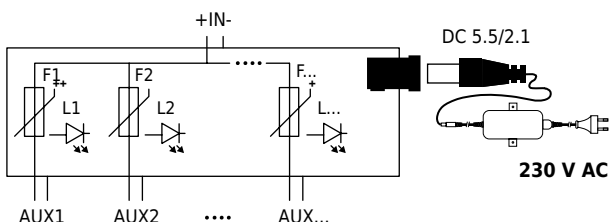
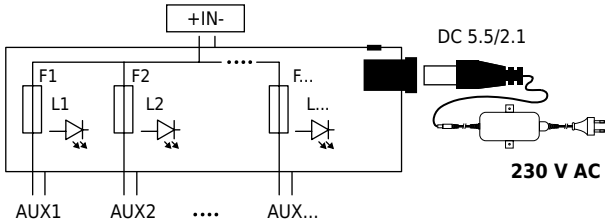
							
Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Glass fuse	DC 5.5/2.1 socket	Dimensions L×W×H [+/- 2mm]
AWZ576	10 – 30 V DC	2 / 4	1mm ²	4×0,5A	✓	✓	80×43×20
AWZ580		2 / 8		8×0,5A	✓	✓	124×43×20
AWZ597	10 – 30 V DC 10 – 24 V AC	1 / 2	2,5mm ²	2×2,0A	✓	—	60×43×26
AWZ589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

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

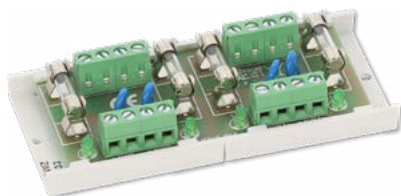
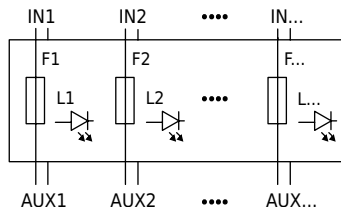
							
Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Fuse PTC / glass fuse	Technical outputs	Dimensions L×W×H [+/- 2mm]
AWZ536	10 – 30 V DC 10 – 24 V AC	1 / 5	2,5mm ²	5×0,5A	✓ / ✓	OC type	150×43×30
AWZ588		1 / 4		4×0,5A	✓ / ✓	OC type, RELAY	125×43×32

Fuse modules

Fuse modules in plastic enclosure glass fuse / PTC

							
							
Code	Power supply	Number of inputs / outputs	Cable cross section (max)	Output protection	Fuse PTC / glass fuse	DC 5.5/2.1 socket	Dimensions W×H×D [+/- 2mm] W ₁ ×H ₁ [+/- 2mm]
AWZ594	10 – 30 V DC	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	— / ✓	✓	

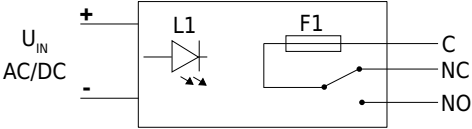
Straight-through – glass fuse (galvanic separation of each output)

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

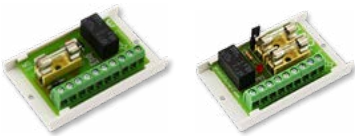
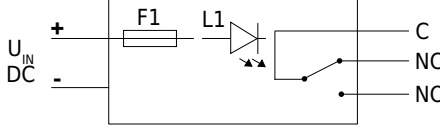
Relay modules

Relay modules

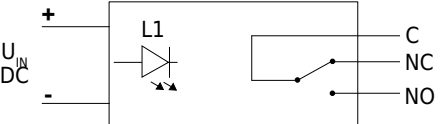
AC/DC power, fuse in C/NC/NO relay circuit

 					
Code	Supply voltage	Number of relays	Maximum connection voltage	Maximum connection current	Dimensions L×W×H [± 2mm]
AWZ510	10 – 16 V DC / 10 – 13 V AC	1	30 V DC / 50 V AC	1A	50×43×20
AWZ512		2			80×43×20
AWZ514	10 – 16 V DC / 10 – 16 V AC	1	30 V DC / 250 V AC	6A	70×43×23
AWZ517	20 – 32 V DC / 20 – 32 V AC	1			75×70×30
AWZ625	10 – 16 V DC / 10 – 16 V AC	2			
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 – 14 V DC	1 (2 x C/NO/NC)	30 V DC / 50 V AC	2A	70×43×20
AWZ513					

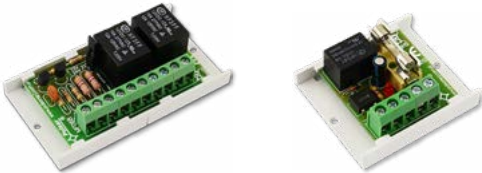
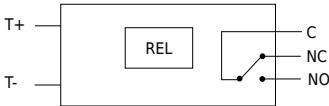
DC power, without fuse

 					
Code	Supply voltage	Number of relays	Maximum connection voltage	Maximum connection current	Dimensions L×W×H [± 2mm]
AWZ529	10 – 14 V DC	2	30 V DC / 50 V AC	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 – 28 V DC	2	30 V DC / 50 V AC	2A	70×43×22

Relay modules

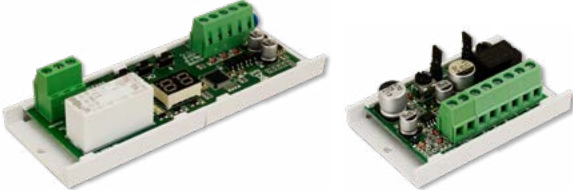
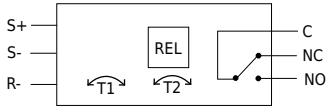
Time relay modules

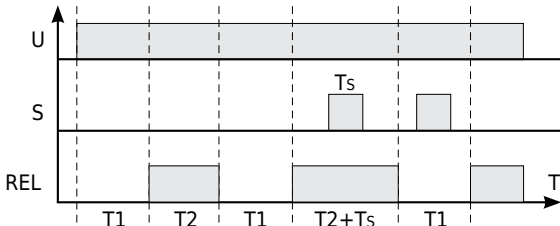
DC power, without fuse – control inputs: T -, T +

Code	Supply voltage	Control inputs	Number of relays	Maximum connection voltage	Maximum connection current	Dimensions L×W×H [+/- 2mm]
AWZ508	10 – 15 V DC 21 – 28 V DC (jumper selectable – Z1)	T-, T+	2	30 V DC / 50 V AC	2A	80×43×22
AWZ610	10 – 14 V DC	T-, T+	1			50×43×22

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 – 16 V DC	S+, S-, R-	1	30 V DC / 250 V AC	10A	0,1s ÷ 100h (18 different time-logic functions)	120×43×22
AWZ525	10 – 14 V DC	S+, S-	1	30 V DC / 50 V AC	1A	1s ÷ 5min	60×43×23
AWZ526		S+, S-, R-					70×43×23

Transformers

10VA÷80VA

Transformers are designed to supply devices requiring galvanic isolation and U1, U2 or U3 AC voltage (i.e. alarm control panels, radio transmitters, GSM, access control panels etc.).

TRP series – IP30, ABS/PC



IP30

Code	Power	Output voltage
AWT050	20VA	16V/1,2A or 18V/1A
AWT053	20VA	12V/1,6A or 14V/1,4A
AWT150	40VA	16V/2,2A or 18V/2A
AWT500	50VA	16V/3A or 18V/2,8A or 20V/2,5A
AWT800	80VA	16V/5A or 18V/4,5A or 20V/4A

TRZ series – IP43, ABS/PC, cast resin



IP43

Code	Power	Output voltage
AWT468	40VA	16V/2,2A or 18V/2A
AWT682	60VA	18V/3,3A or 20V/3,0A
AWT8161820	80VA	16V/5A or 18V/4,5A or 20V/4A
AWT8172430	80VA	17V/4,7A or 24V/3,3A or 30V/2,7A

EI series, cast resin



Code	Power	Output voltage
AWT830	30VA	16,5V/1,8A
AWT845	45VA	16,5V/2,7A

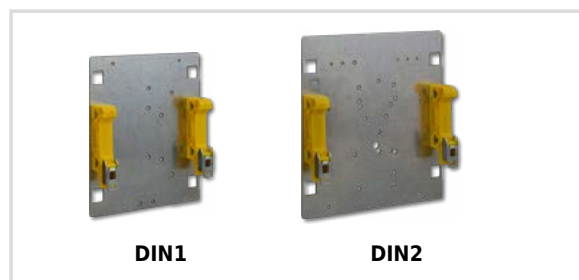
Transformers for electric strikes and intercoms



IP64

Code	Power	Output voltage
AWT027	10VA	11,5V/0,8A or 14V/0,6A

Accessories: – DIN rail brackets



Panic alarm button

Foot-operated panic button PN

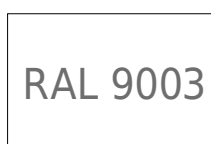
- ALARM output: C/NC/NO – 1A@30 V DC / 50 V AC max
- TAMPER output: C/NC/NO – 1A@30 V DC / 50 V AC max
- operating conditions II environmental class, -10°C – 40°C
- enclosure: metallic DC01 0,7mm, RAL 9003, IP20
- connectors: $\Phi 0,41 \div 1,63$ (AWG 26-14)
- warranty: 2 years



Cable entry

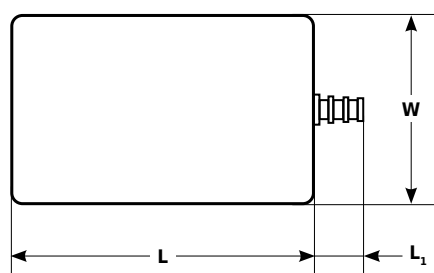
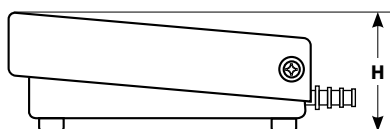


Distance



Metal enclosure
colour: RAL 9003

Code	ALARM output	TAMPER output	Dimensions L×W×H [+/- 2mm] L ₁ [+/- 2mm]
AWZ700	C/NC/NO	C/NC/NO	106×66×36 18



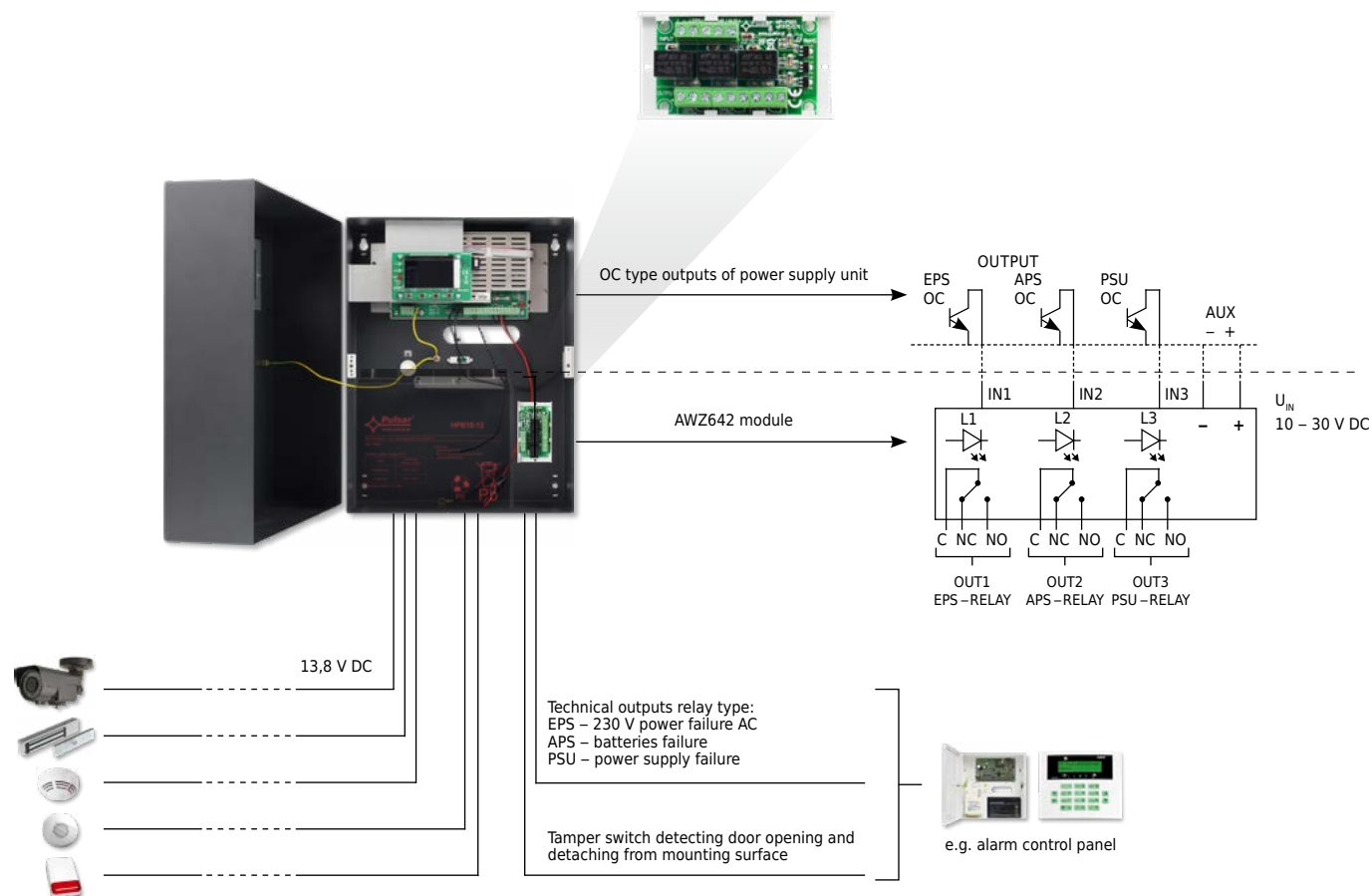
Relay module AWZ642

Module of technical relay outputs

AWZ642 relay module is used for changing technical outputs (OC type) into technical outputs of relay type (C/NO/NC).
Dedicated for power supplies of: AWZG2 / MSRK / PSG3 / HPSG3



Code	Supply voltage	Control outputs	Technical outputs – relay type	Relays	Dimensions L×W×H [± 2mm]
AWZ642	10 – 30 V DC	IN1 IN2 IN3	OUT1 OUT2 OUT3	3×REL-C/NO/NC, 1A@30 V DC/50 V AC	69×20×43



Enclosures for alarm control panels fitted with transformer of TRP series / with power supply

Universal

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



Code	Transformer	Power supply output	Recommended battery	External dimensions 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	250×252×81+8	256×256
AWO009	TRP 40VA	16V/2,2A or 18V/2,0A	7Ah/12V	250×250×80+8	255×255
AWO150			7Ah/12V	280×292×81+8	286×296
AWO220			17Ah/12V	320×305×90+8	325×310
AWO200			17Ah/12V	320×398×91+8	326×403
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	348×398×171+8	354×403

SATEL

Dedicated for control panels SATEL.



Code	Transformer	Power supply output	Recommended battery	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO256	TRP 50VA	16V/3,0 or 18V/2,8A or 20V/2,5A	17Ah/12V	320×400×90+8	325×405

PARADOX

Dedicated for control panels PARADOX.



Code	Transformer	Power supply output	Recommended battery	External dimensions 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	250×252×81+8	256×256
AWO008	TRP 40VA	16V/2,2A or 18V/2,0A	7Ah/12V		
AWO152			7Ah/12V	280×290×80+8	285×295
AWO232			17Ah/12V	320×305×90+8	325×310
AWO214			17Ah/12V	320×398×91+8	326×403

DSC

Dedicated for control panels DSC.



Code	Transformer	Power supply output	Recommended battery	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO171	TRP 40VA	16V/2,2A or 18V/2,0A	7Ah/12V	280×295×78+6	285×300

KSENIA

Dedicated for control panels KSENIA.

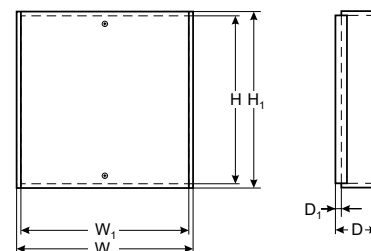


Code	Power supply output (adjustment)	Recommended battery	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO102	15V / 1,7A 13,5 – 16,5 V DC	7Ah/12V	250×292×81+8	256×296
AWO195	15V / 3,4A 13,5 – 18 V DC	17Ah/12V	320×434×91+8	326×438

Enclosures for alarm control panels construction compliant with EN50131, GRADE 3 version fitted with transformer of TRP / TRZ series *

SATEL

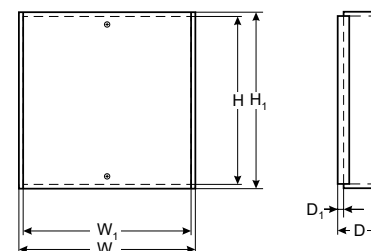
Dedicated for control panels SATEL.



Code	Transformer	Power supply output	Recommended battery	External dimensions of enclosure: W×H×D (D ₁) [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
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	TRZ 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	Recommended 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

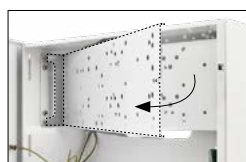
Universal – two-level version

fitted with transformer of TRP series

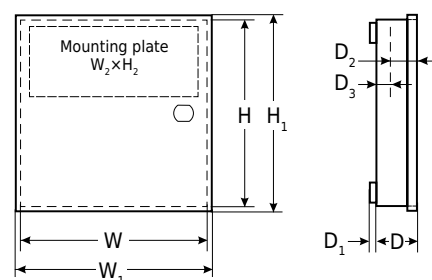
Dedicated for control panels
DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...

Communication modules
GORKE – ATG ROPAM – BASIC, MULTI GSM SATEL – ETHM, GSM LT1, LT2, GPRS-T1/T2/T4

Two-level security metallic 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	348×433×141+8	354×438	310×135	62/75

Enclosures for alarm control panels

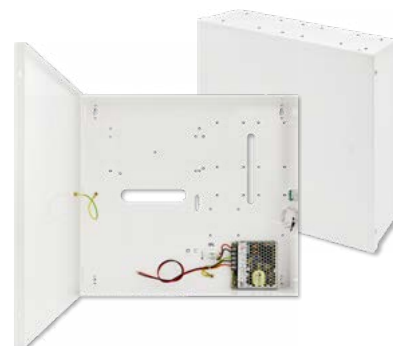
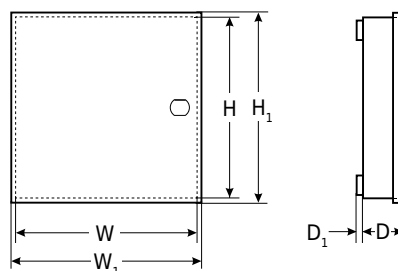
RISCO

with power supply LRS

Dedicated for control panels
RISCO

Metallic enclosure is designed as component of RISCO intruder alarm security systems. It is intended for installation:

- control panels
- 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	430×398×91+8	436×403

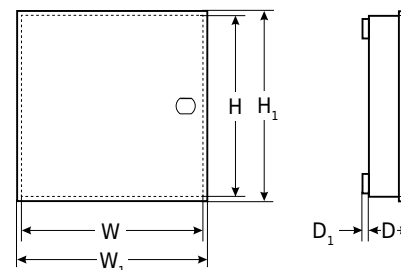
Empty enclosures for alarm control panels without transformer

Universal

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



Code	Recommended 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	320×398×91+8	326×403
AWO250PU	17Ah/12V	320×400×120+8	325×405
AWO301PU	24Ah/12V	348×398×171+8	354×403



Universal – EMPTY / DSC-EMPTY

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



Code	Dedicated for control panels	Recommended battery	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO000EMT	Universal	7Ah/12V	250×250×80	255×255
AWO150EMT		7Ah/12V	280×290×80	285×295
AWO220EMT		17Ah/12V	320×305×90	325×310
AWO200EMT		17Ah/12V	320×398×91	326×403
AWO250EMT		17Ah/12V	320×400×120	325×405
AWO171EMT	DSC	7Ah/12V	280×295×78+6	285×300

Accessories:

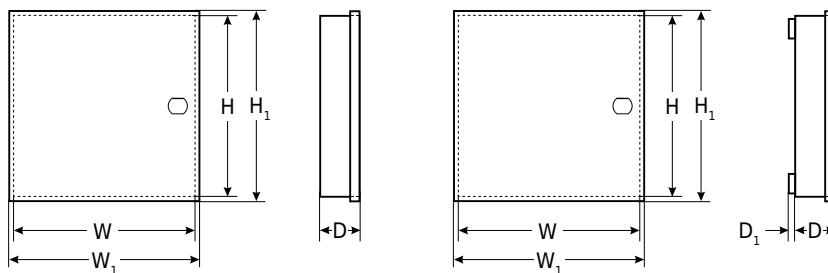


PKAZ158
Mounting set is intended to EMPTY enclosures



PKAZ196
Mounting set is intended to DSC EMPTY enclosures

Applies: AWO171EMT

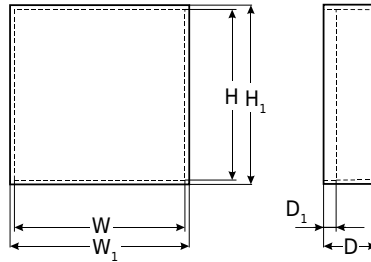


Empty enclosure for alarm control panels SATEL – GRADE 3 version without transformer

Dedicated for control panels
SATEL

Metallic 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 holes for mounting transformer of TRP, TRZ series. Enclosure compliant with EN50131 (GRADE 3) is used in alarm systems in accordance with EN50131.

Compliant with EN50131
GRADE 3



Accessories:



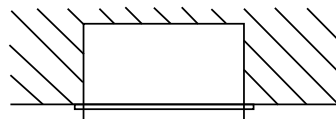
AWO269S

Code	Recommended battery	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]
AWO269PU	17Ah/12V	320×400×130 (15)	326×408

Empty, flush-mounted enclosures for alarm control panels Universal without transformer

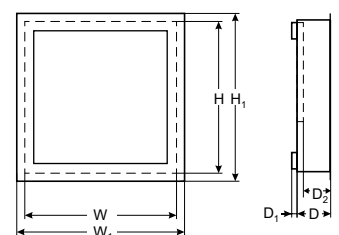
Dedicated for control panels
DSC, SATEL, PARADOX, RISCO, PYRONIX, CROW...

Metallic 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 for esthetic installation. Enclosures in empty version are without transformer – these enclosures have holes for mounting transformer of TRZ series.



Sample product:
AWO510PU

Code	Recommended battery	External dimensions of enclosure: $W \times H \times D + D_1$ [± 2 mm]	External dimensions of flange: $W_1 \times H_1$ [± 2 mm]	Working depth: D_2 [± 2 mm]
AWO500PU	17Ah/12V	310×305×100+8	345×355	95
AWO510PU	17Ah/12V	345×395×100+8	380×450	
AWO520PU	28Ah/12V	350×395×180+8	380×430	175



Enclosures for expanders

Universal

Dedicated for expanders DSC, SATEL, PARADOX, RISCO...



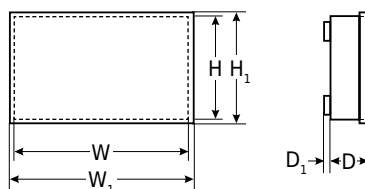
Code	Destination	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO452	DSC, SATEL, PARADOX, RISCO	218×150×50+8	222×155
AWO453		262×172×49+8	267×176

SATEL

Dedicated for expanders SATEL.



Code	Destination	Recomended 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	320×304×101+8	326×308



Enclosures for expanders GRADE 3 version construction compliant with EN50131

Universal

Dedicated for expanders DSC, SATEL, PARADOX, RISCO, ZKTeko....



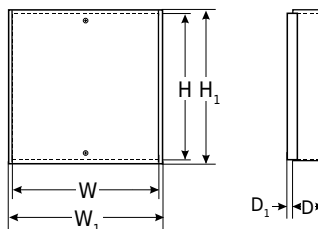
Code	Destination	External dimensions of enclosure: $W \times H \times D (D_1)$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AWO454	DSC, SATEL, PARADOX, RISCO, ZKTeko	299×203×67 (16)	292×207

SATEL

Dedicated for expanders SATEL.



Code	Destination	Recomended 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



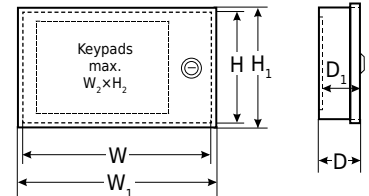
Enclosures for keypads Surface-mounted

Dedicated for keypads of control panels
DSC, SATEL, PARADOX...

Metallic enclosures for keypads are designed for installation 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

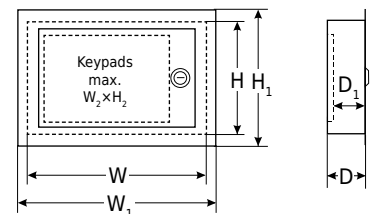
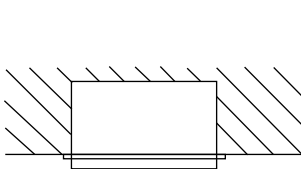


Code	Destination	LED / LCD	Control window	External dimensions of enclosure: W×H×D [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]	Keypad mounting dimensions: W ₂ ×H ₂ ×D ₁ [± 2mm]
AWO350	DSC, FBII, SCANTRONIC, ROKONET, PARADOX, NAPCO, SUMMIT	LED	—	192×132×42	198×137	135×125×32
AWO352	SATEL	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, PULSON	LCD	—	235×135×42	242×140	185×130×32
AWO353	SATEL, PARADOX, GALAXY, VISONIC, PYRONIX, CADDX NETWORKX, ROKONET, ELKRON, ADEMCO, PIMA, FBII	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...

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



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
EBS, PRONAL

Metallic 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 TRP series.



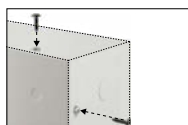
Pre-embossed for antenna



Transformer of TRP series



Tamper switch detecting enclosure opening – 1 piece



Screw closing – 4 pieces



Embossing for a lock (MR008 / MR027)

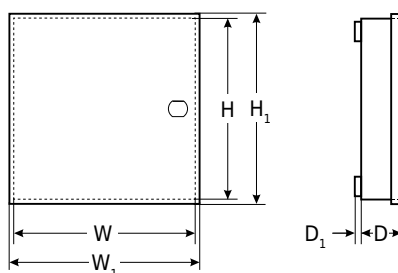


Spacers (plastic) – 8mm



Removable hinges

Code	Destination	Transformer	Power supply output	Recommended battery	External dimensions of enclosure: $W \times H \times D$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]
AW0040	EBS / PRONAL	TRP 20VA	14V/1,4A 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
- 2x 7Ah/12V batteries

Industrial use

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



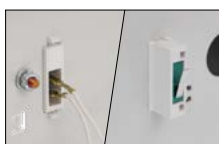
AWO513



AWO514



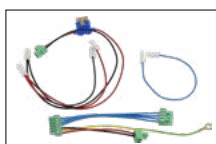
Tamper switch detecting enclosure opening – 1 piece



Tamper switch – enclosure detachment – 1 piece



Lock



Set of cables included

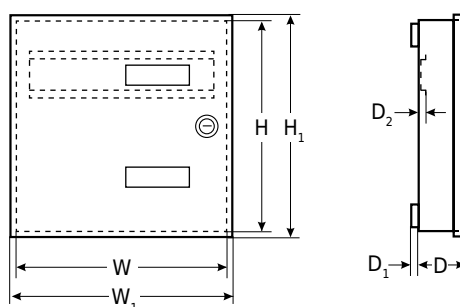


Control window



Screwed DIN rail distance 18mm

Code	Number of DIN rails / length / number of „S” fields / D_2	Recommended batteries	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	2x 7Ah / 12V	1	405x320x90+14	412x323
AWO514	2 / 380mm / 21 / 18mm		2	405x520x90+14	412x523



Enclosures for Access Control Systems

Nedap

Dedicated for Access Control Systems
Nedap

- Enclosures are designed for mounting (depending on configuration):
 - 9981624 AP7803m – Access Control Controller (AEpu)
 - 9981632 AP7003m – Access control expansion module (AEpack)
 - 9984135 AP7031m – I / O module (AEpack) power supply of PCB on TH/TS35 (35mm) DIN rail
- power supplies of Pulsar / Mean Well
- 1x 17Ah / 2x 17Ah batteries (depending on model)



AWO601W



AWO602



Tamper switch detecting enclosure opening
– 1 piece *



AC power input



Embossing for a lock
(MR008 / MR027)



Removable hinges



Spacers (plastic) – 8mm / 14mm *

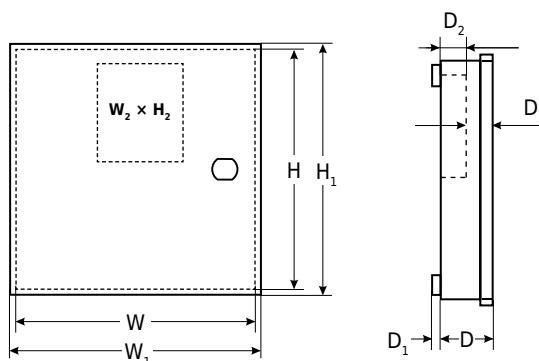


Mounting plate

Applies to AWO601W

* depending on model

Code	Recommended battery/batteries	Mounting plate dimensions: $W_2 \times H_2$ [± 2mm]	Enclosure dimensions: $W \times H \times D + D_1$ [± 2mm] $W_1 \times H_1$ [± 2mm]
AWO601W	2x 7Ah, 1x 17Ah/12V	82x121	230x372x80+8 235x375
AWO602	2x 17Ah/12V	—	340x550x170+14 345x555



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, PRA-EOL.

Enclosure is designed for mounting loudspeaker line supervision systems by BOSCH used in Voice Alarm Systems. Design of enclosure allows mounting Praesideo, Plena, Praesensa and Paviro systems by BOSCH. Enclosure is fitted with four cable glands allowing connecting loudspeaker wires with maximum diameter of 10mm.



Closing – screwed – 2 pieces

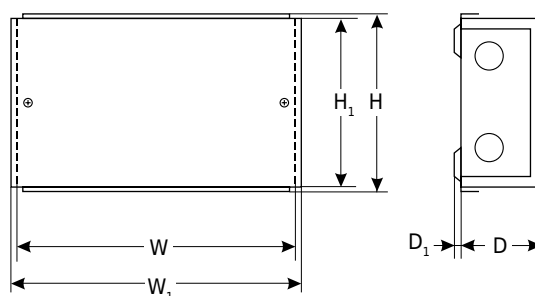


Rubber cable bushings



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: Presideo, Paviro, Plena, Praesensa	150x112x31+3	153x108



Enclosures for batteries

Surface mounted, DIN rail mounted

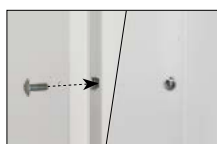
Metallic enclosures for batteries are designed as supplementary elements for Intrusion Detection Systems, Access Control systems, etc. Dedicated for surface mounting of maintenance-free lead-acid batteries of following capacities: 7Ah / 17Ah / 28Ah / 44Ah / 65Ah. In addition, when using PKAZ107, it is possible to mount enclosure on DIN rail (TH35) – only AWO401.



Sample product:
AWO401



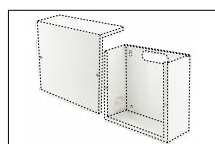
Tamper switch detecting enclosure opening – 1 piece



Closing – screwed – 2 pieces



Spacers (plastic) – 8mm



Removable front cover



Holes for PKAZ107

Applies to AWO401 enclosure



PKAZ107

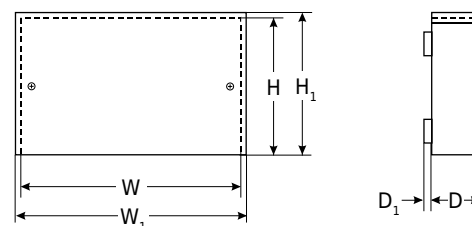


Code	Recommended battery/batteries					Surface mounted	DIN rail mounted (Required set: PKAZ107)	External dimensions of enclosure: W×H×D+D ₁ [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]
	7Ah	17Ah	28Ah	44Ah	65Ah				
AWO401	1×	1×	—	—	—	✓	✓	205×190×81+8	209×189
AWO402	2×	2×	1×	1×	—	✓	—	230×202×173+8	234×201
AWO403	4×	4×	2×	1×	1×	✓	—	390×202×173+8	394×201

Accessories:



PKAZ107



Enclosures for power supply units

Pulsar: PS series

Mean Well: LRS, RS, RSP series

Enclosures are designed for power supply units of PS (Pulsar), LRS, 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 – screwed – 1 piece



Removable hinges

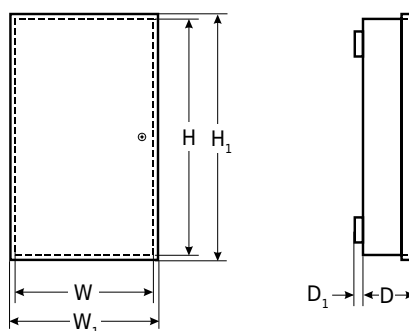


Spacers (plastic) – 8mm



Set includes screws for mounting power supply unit

Code	Space for power supply unit		External dimensions of enclosure: W×H×D+D ₁ [+/- 2mm]	External dimensions of front panel: W ₁ ×H ₁ [+/- 2mm]
	Pulsar	Mean Well		
AWO384	PS-12V2A, PS-12V3A, PS-12V5A, PS-48V1A	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	148×204×51+8	153×208
AWO385	PS-12V2A, PS-12V3A, PS-12V5A, PS-48V1A, PS-12V7A, PS-12V10A, PS-48V3A, PS-12V15A	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	175×277×61+8	180×281



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. They are made of 1mm thickness steel, equipped with two locks (various code) two keys for each lock and tamper switch indicating enclosure opening.

Due to horizontal 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, easy access to buttons on front panel of recorder is provided. Wiring in rear side of recorder can also be easily accessed by simply remove upper part of enclosure. To mount enclosures under tabletop use appropriate brackets (available as accessory).



Possibility to install ARAW45 fan



Mounting under tabletop



Sample product:
AWO447



Closing
lock, type 802 – various code
– 2 pieces



Tamper switch detecting
enclosure opening – 1 piece



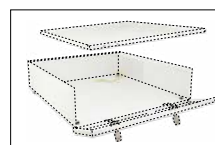
Legs length – 14mm



Removable hinges



Space for fan



Removable front cover

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	✓	400×99+14×300	405×105	355×90×235
AWO447		✓	400×99+14×430		355×90×360
AWO483	AWO483BR	✓	500×99+14×400	505×105	455×90×335
AWO471	AWO471BR	✓	550×124+14×572	555×130	505×115×505

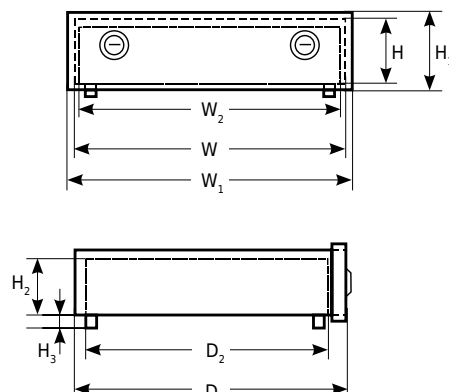
Accessories:



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. They are made of 1,2mm thickness steel.

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 enclosure, 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



Sample product:
AWO529S / AWO529WS



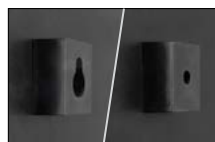
Closing lock, type 802
– various code
– 2 pcs. for AWO
– 1 pcs. for AWO...S



Tamper switch detecting
enclosure opening – 1 pcs.



Tamper switch detecting
detachment from mounting
surface (for AWO...S required
PKAZ067)



Spacers (plastic) – 14mm



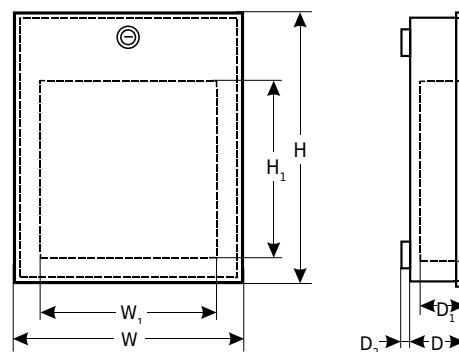
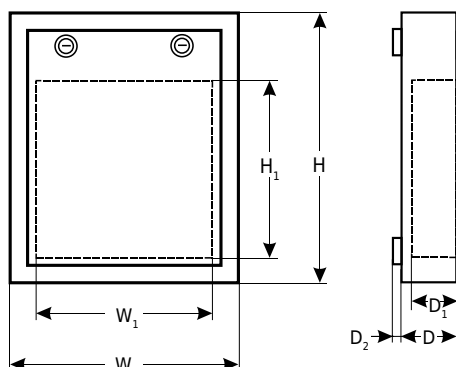
Opening limitation

Code	Colour	Possibility of mounting ARAW45	Number of locks MR008 (various code)	External dimensions of enclosure W×H×D+D ₂ [± 2mm]	Dimensions of recorder space W ₁ ×H ₁ ×D ₁ [± 2mm]
AWO528	RAL9005 (black matt)	—	2 pcs.	320×430×82+14	260×250×55
AWO528S			1 pcs.		
AWO528W	RAL9003 (white)	—	2 pcs.	320×430×82+14	260×250×55
AWO528WS			1 pcs.		
AWO529	RAL9005 (black matt)	—	2 pcs.	435×500×121+14	375×335×95
AWO529S			1 pcs.		
AWO529W	RAL9003 (white)	—	2 pcs.	435×500×121+14	375×335×95
AWO529WS			1 pcs.		
AWO530	RAL9005 (black matt)	✓	2 pcs.	535×650×121+14	470×485×95
AWO530S			1 pcs.		
AWO530W	RAL9003 (white)	✓	2 pcs.	535×650×121+14	470×485×95
AWO530WS			1 pcs.		

Accessories:



ARAW45
Fan with temperature
sensor 45°C



Enclosures for CCTV recorders

Vertical – with space for monitor

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

Enclosures protects recorder/monitor/switch against unauthorized access or theft.
Enclosure is made of steel with thickness of 1,2mm.

Possibility of install inside:

- recorder
- desktop type switches
- RACK 19" switches
- RACK 19" patch panel
- monitor (max 22") – applies to AWO531W

Warranty: 2 years



Sample product:
AWO531W



Closing lock, type 802 – various code – 2 pieces *



Tamper switch indicating enclosure opening



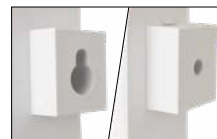
Profile RACK 19" – 3U / 4U – horizontal *



Hinged mounting plate (monitor – max 22") *
VESA 75x75 / 100x100



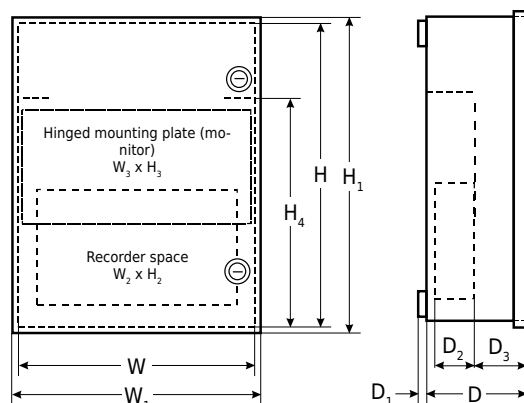
Enclosure is fitted with straps for mounting recorder *



Spacers (plastic) – 14mm

* depending on model

Code	Recommended batteries	Outlet 230 V AC	Locking with keys (GDPR)	Place for a monitor (max 22") VESA 75x75 VESA 100x100	Possibility of mounting ARAW45	RACK 19" holder (horizontal)	External dimensions of enclosure: $W \times H \times D_1$ [+/- 2mm]	Dimensions of recorder space: $W_2 \times H_2 \times D_2$ [+/- 2mm]	Straps for mounting recorder
AWO531W	4x 7Ah	—	✓	✓	✓	4U	589x650x261+14	480x400x180	✓
AWO532W	4x 7Ah / 2x 17Ah	2 pieces	— (assembly required 2x MR008)	—	—	3U	535x540x163+14	530x380x155	— (ZPR kit required)



Accessories:



ARAW45
Fan with temperature sensor 45°C



RAPDS
Universal RACK adapter for desktop switches



ZPR
Set of two straps for mounting recorder



MR008
Lock, type 802 – various code

Enclosures for CCTV recorders

Vertical – with switch/monitor space – RACK 19"

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. They are made of 1,2mm thickness steel.

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 enclosure, front cover are held in horizontal position, providing easy access to buttons on front panel of recorder.

Warranty: 1 year



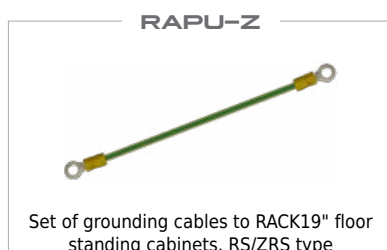
Sample product
AWO534G

Examples of application:



Code	Colour	Possibility to install ARAW45 fan RAW1	Place for a monitor, standard VESA: 50 / 75 / 100	RACK brackets	Knock-outs	Number of locks (same code)	External dimensions of enclosure WxHxD+D ₁ [+/- 2mm]	Dimensions of recorder space W ₁ xH ₁ xD ₁ [+/- 2mm]
AWO534	black	✓ (left or right side)	✓ max width: 495mm	Top of enclosure 1U: 10" / 19"	4 x Ø 50mm (top of enclosure)	2 pcs.	600x600x200+2,5	475x50x355
AWO534G	grey			Additional: 1U – 1 set 2U – 2 sets 3U – 1 set				

Accessories:



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

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



Sample product:
AWO613



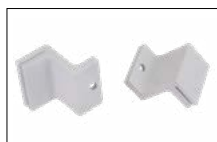
Tamper switch unwanted enclosure opening – 1 piece



Closing – screwed



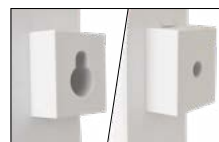
Screwed DIN rail



Plastic spacers



Pre-embossed for lock (MR008, MR027)



Spacers (plastic) – 14mm

Code	Number of DIN rails / length / number of „S” fields	Recommended battery/batteries	Destination	External dimensions of enclosure: W×H×D+D ₁ [± 2mm]	External dimensions of front panel: W ₁ ×H ₁ [± 2mm]
AWO611	1 / 320mm / 18	2× 17Ah/12V	Standard + Mean Well	375×205×155+14	380×210
AWO612	2 / 320mm / 18	2× 17Ah/12V	Standard + Mean Well	375×410×151+14	380×415
AWO613	3 / 320mm / 18	2× 17Ah/12V	Standard + Mean Well	375×586×151+14	381×591
AWO621	1 / 320mm / 18	1× 17Ah/12V	Standard + Mean Well	375×205×100+14	380×210
AWO622	2 / 320mm / 18	2× 17Ah/12V	Standard + Mean Well	375×410×96+14	381×415

Accessories:



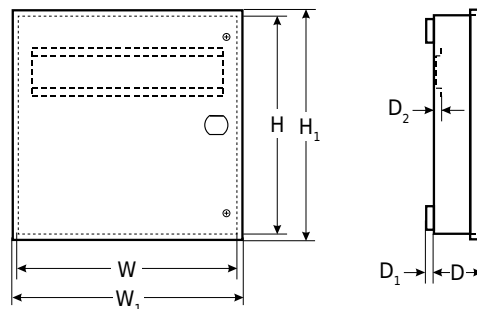
PKAZ169

Set for enclosures with DIN rails



PKAZ067

Tamper switch detachment from surface 14mm with wires



Metal enclosures – IP66 hermetic

Universal, with mounting plate – outdoor

AWOH series

AWOH series of hermetic metal enclosures providing protection against external factors such as water (moisture) and dust (dirt). Their quality and aesthetically design make them perfectly suitable to modern residential, office and industrial buildings. They are designed for a variety of applications in many industries, including:

- security systems – for protecting alarm devices, access control or CCTV monitoring
- industrial automation – for the protection of control and executive devices
- telecommunication installations – to protect equipment and transmission lines
- electrical installations – electrical switching stations, protection of electrical equipment

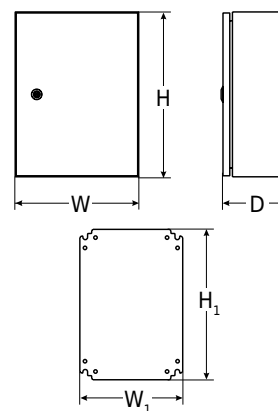
Features:

- cast gasket on door
- metal lock(s) *
- ingress protection class IP66
- changeable door – right or left
- made of 1.2 mm thick sheet steel
- mounting plate made of 1,5 mm sheet steel
- resistance to mechanical damage – resistance class IK10
- enclosures are protected against corrosion and finished with textured epoxy polyester grey paint – RAL7035 (grey structure)

* depending on model



Code	Enclosure dimensions W x H x D [+/- 2mm]	Mounting plate dimensions W ₁ x H ₁ [+/- 2mm]	Number of locks	Dedicated accessories		Accessories
				Pole mounting bracket	Cable grommet	
AWOH252515	250 x 250 x 150	200 x 215	1	AWOH-US30	AWOH-PM10A	AWOH-K1 AWOH-Z1 AWOH-UA1 AWO269S RAPU-Z
AWOH304015	300 x 400 x 150	250 x 365	1	AWOH-US30	AWOH-PM10B	
AWOH405015	400 x 500 x 150	350 x 465	1	AWOH-US40	AWOH-PM10B	
AWOH406020	400 x 600 x 200	350 x 565	2	AWOH-US40	AWOH-PM25C	
AWOH406030	400 x 600 x 300	350 x 565	2	AWOH-US40	AWOH-PM25C	
AWOH506025	500 x 600 x 250	450 x 565	2	AWOH-US50	AWOH-PM25C	
AWOH507020	500 x 700 x 200	450 x 665	2	AWOH-US50	AWOH-PM25D	
AWOH604020	600 x 400 x 200	550 x 365	1	AWOH-US60	AWOH-PM25D	
AWOH608030	600 x 800 x 300	550 x 765	2	AWOH-US60	AWOH-PM25D	



Accessories:



Teletechnical enclosures

Residential – surface-mounted / 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:
AWO805



Sample product:
AWO802



Tamper switch unwanted enclosure opening – 1 piece



Closing – screwed



Mounting shelf



Mounting plate



Enclosure ventilation

Applies to: AWO805



Spacers (plastic) – 8mm

Code	Possibility of installing					External dimensions of enclosure: W×H×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 45×45mm	
surface-mounted						
AWO805	12	12	2	1	1	295×345×90+8
flush mounted						
AWO802	12	12	2	1	1	295×345×90

Accessories:



GF-GF



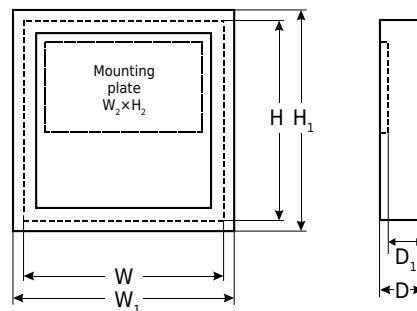
GF-GF-K



SC/APC-1SM



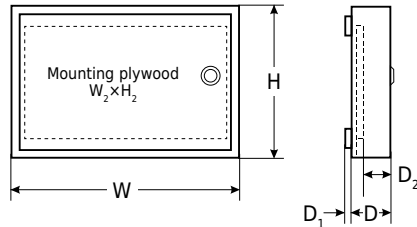
SC/APC-2SM



Teletechnical enclosures

Universal with plywood mounting – 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.



Sample product:
AWO654



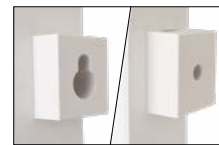
Lock MR027
same code



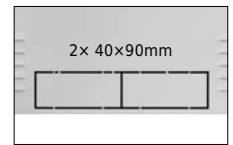
Mounting plate
waterproof plywood – 6mm



Removable back mounting plate



Spacers (plastic) – 14mm



Knock-outs Top/Bottom
2x 40x90mm

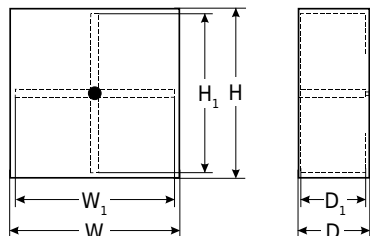
Code	Pre-embossed, Top/Bottom	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	Assembly plywood dimensions: $W_2 \times H_2$ [+/- 2mm]	Working depth: D_2 [+/- 2mm]
AWO654	2 pcs. – 40x90mm	485x365x145+14	470x260	120
AWO656		645x485x185+14	630x380	160

Enclosures with cable frame

Enclosure is applied in ICT and telecommunication sectors. It is designed to store excessive fiber optic cable. Enclosure is compliant with requirements of ZN96/TPSA-009 standard. It consists 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.

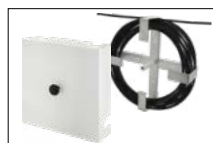
Cover protects cable against mechanical damage. Cover is mounted with single screw.



Wall mounting – 4 screws



120 meter spare cable



Metal enclosure
(Cable protection)



Cable output



Knob Ø40mm / M8x16

Code	External dimensions of enclosure: $W \times H \times D$ [+/- 2mm]	Frame dimensions: $W_1 \times H_1 \times D_1$ [+/- 2mm]
AWO644	400x400x105	395x395x90

Fire protection installation boxes

Straight-through, distribution, with 1 / 2 fuses

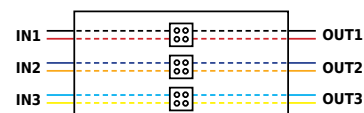
AWOP and AWOZ series

Junction boxes for fire alarm systems are designed for connecting fire protection devices in cable installation systems with fire resistance according to DIN 4102-12 standard, where uninterruptible power supply or transmission of signal in case of fire are required.

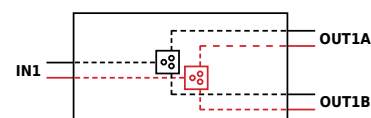


Fire resistance classification
E30, E60, E90

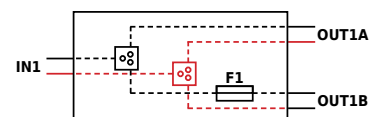
Straight-through



Distribution



Distribution box protected with fuses



Metal enclosure



Wiring terminals



Ceramic connection blocks



Pins for grounding



Color: red RAL 3001

Code	Voltage	Fuse	Cable cross section	Dimensions / Shape W×H×D [± 2mm]
------	---------	------	---------------------	-------------------------------------

Straight-through boxes

AWOP-625PP	450 V AC	—	2,5mm ²	154×80×30 / □
AWOP-925PP	450 V AC	—	2,5mm ²	190×80×30 / □
AWOP-960PP	450 V AC	—	6mm ²	204×100×30 / □

Distribution boxes

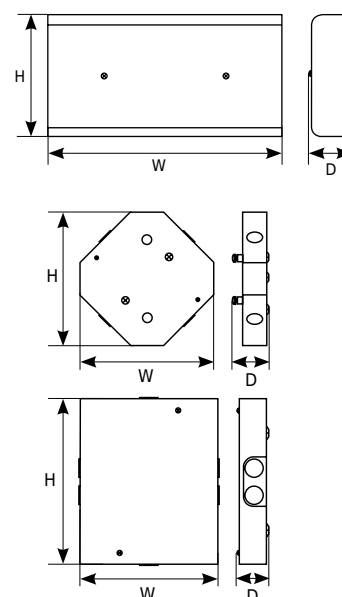
AWOP-225PR	450 V AC	—	2,5mm ²	154×80×30 / □
AWOP-225SR	450 V AC	—	2,5mm ²	120×120×37 / ◇
AWOP-325PR	450 V AC	—	2,5mm ²	190×80×30 / □
AWOP-360PR	450 V AC	—	6mm ²	204×100×30 / □
AWOP-425SR	450 V AC	—	2,5mm ²	120×120×37 / ◇

Distribution boxes with one fuse

AWOZ-125P	125 V AC	1×0,375A	2,5mm ²	154×80×30 / □
AWOZ-125P1A	125 V AC	1×1,0A	2,5mm ²	154×80×30 / □
AWOZ-125S	125 V AC	1×0,375A	2,5mm ²	120×120×37 / ◇
AWOZ-125S1A	125 V AC	1×1,0A	2,5mm ²	120×120×37 / ◇

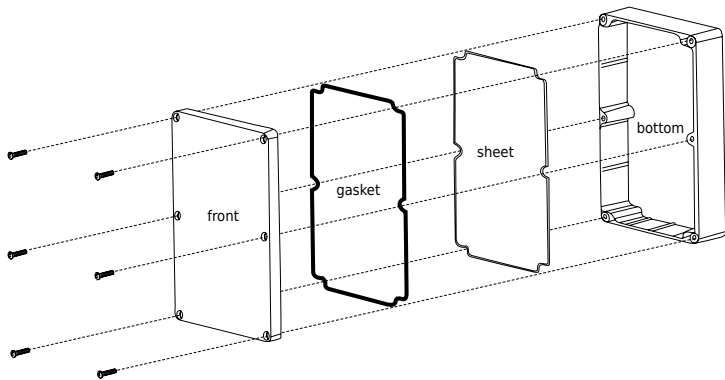
Distribution boxes with two fuses

AWOZ-225P	125 V AC	2×0,375A	2,5mm ²	122×142×30 / □
AWOZ-225S	125 V AC	2×0,375A	2,5mm ²	120×120×37 / ◇



Plastic enclosures IP65 with mounting plate AWO series

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



Closing – screwed
– 4/6 pieces



Gasket



Removable back
mounting plate



Hermetic enclosure IP65



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:



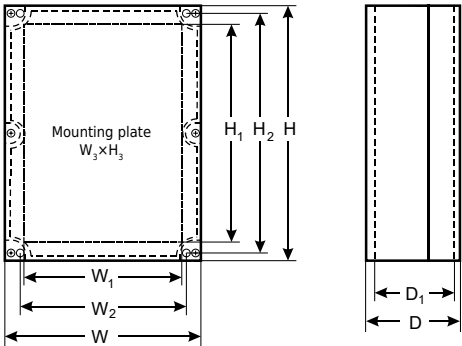
ML146
(M12×1.5)



ML147
(M16×1.5)

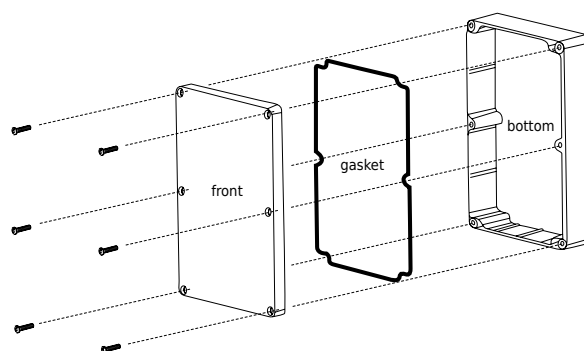


ML145
(M20×1.5)



Plastic enclosures IP65 without mounting plate AWP series

For mounting devices that require IP65 protection class.



Closing – screwed
– 4/6 pieces



Gasket

IP65

Hermetic enclosure IP65

ABS

Material: ABS

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

Accessories:



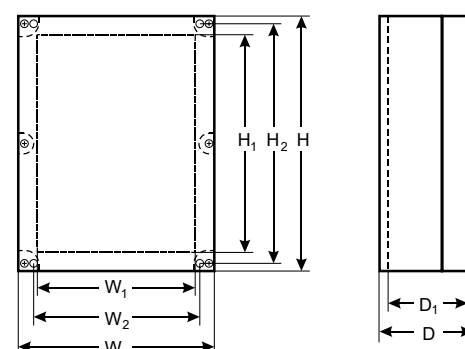
ML146
(M12×1.5)



ML147
(M16×1.5)



ML145
(M20×1.5)



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

RWA series

600×450 / 600×600

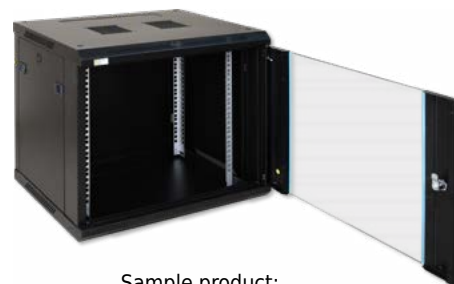
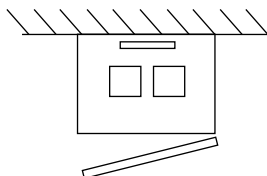
RACK 19"

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. Thanks to RACK cabinets, devices are aesthetically mounted and protected against mechanical damage.

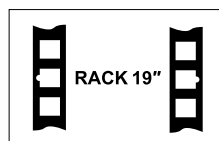
Help:

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

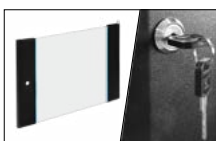
CONFI
RACK



Sample product:
RWA964



Standard RACK 19"



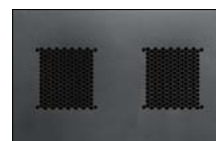
Front door: 5mm toughened
glass + lock



Possibility of mounting
RAZB16 side lock



Pre-embossed
340×56mm

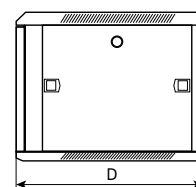
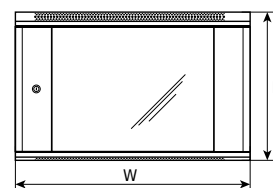


Ventilation

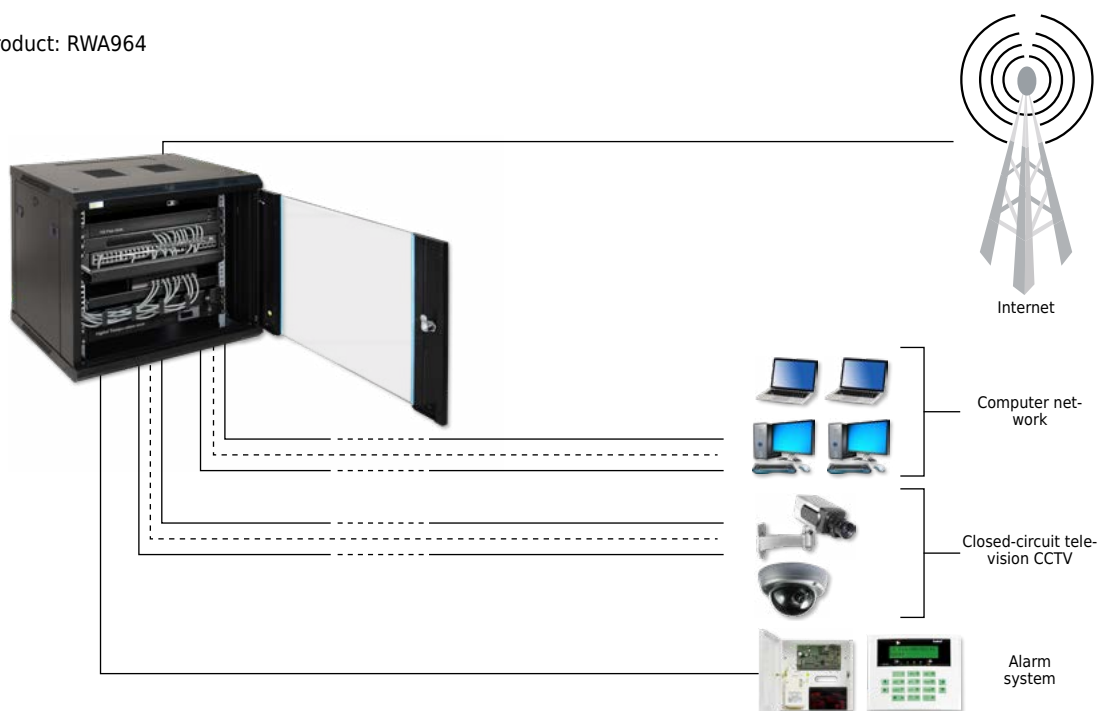


Ready-to-assemble

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



Sample product: RWA964



RACK 19" cabinets – wall mounted, fully assembled

RW series

600×450 / 600×600

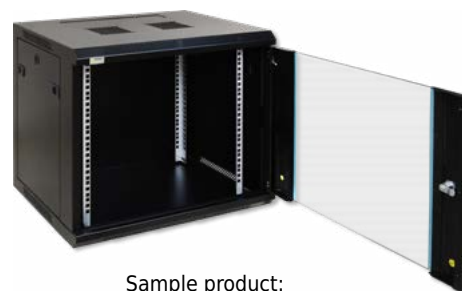
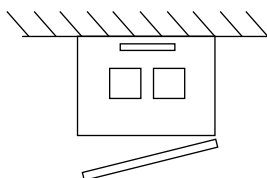
RACK 19"

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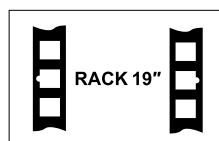
Help:

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Available on www.pulsar.pl

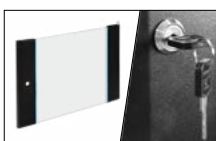
CONFI
RACK



Sample product:
RW964



Standard RACK 19"



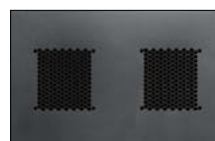
Front door: 5mm toughened
glass + lock



Possibility of mounting
RAZB16 side lock



Pre-embossed
340×56mm

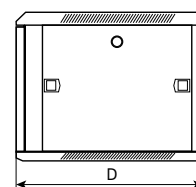
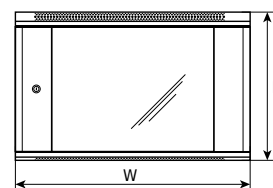


Ventilation

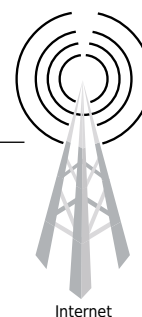
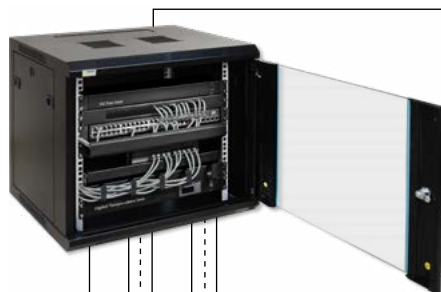


Fully assembled

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



Sample product: RW964



Computer network

Closed-circuit television CCTV

Alarm system

RACK 19" cabinets – double section – fully assembled

RWD series

600×600

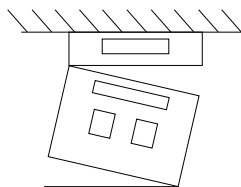
RACK 19"

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Help:

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

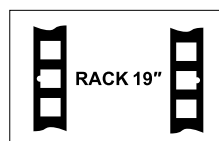
CONFI
RACK



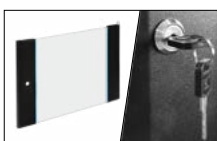
Two-section design



Sample product:
RWD1266



Standard RACK 19"



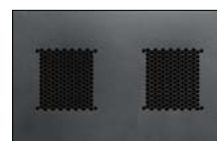
Front door: 5mm toughened
glass + lock



Possibility of mounting
RAZB16 side lock



Ventilation holes
/ end caps 273×60mm

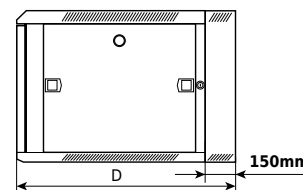
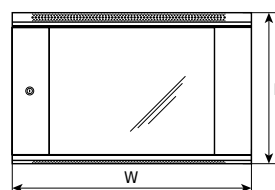


Ventilation

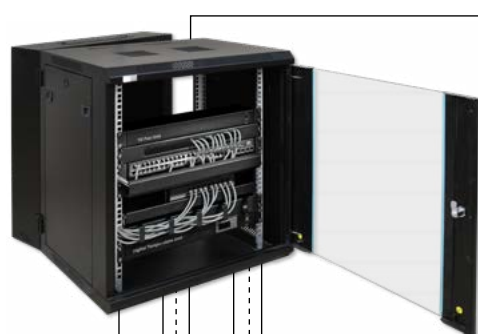


Fully assembled

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



Sample product: RWD1266



Internet



Computer net-
work



Closed-circuit tele-
vision CCTV



Alarm
system

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

RS series

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

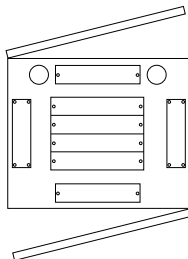
RACK 19"

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. Thanks to RACK cabinets, devices are aesthetically mounted and protected against mechanical damage.

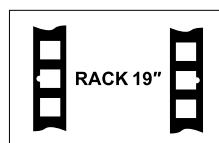
Help:

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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
for RAZB16 side lock

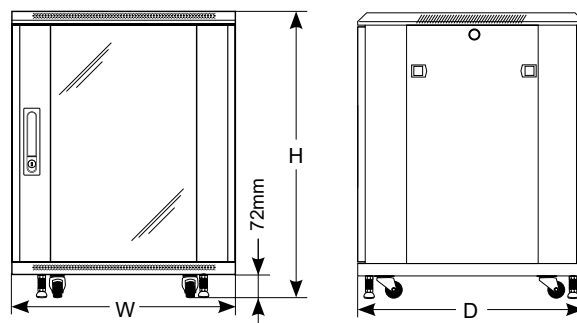


Ventilation holes / End caps



Ready-to-assemble

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



Sample product: RS2768



Internet



Computer net-
work



Closed-circuit tele-
vision CCTV



Alarm
system

RACK 19" cabinets – floor standing, fully assembled

ZRS series

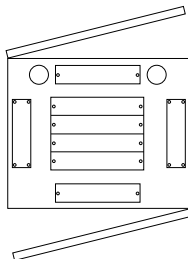
600×600 / 600×800 / 600×1000

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Help:

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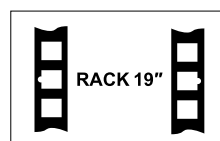
CONFIRACK®



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 for RAZB16 side lock

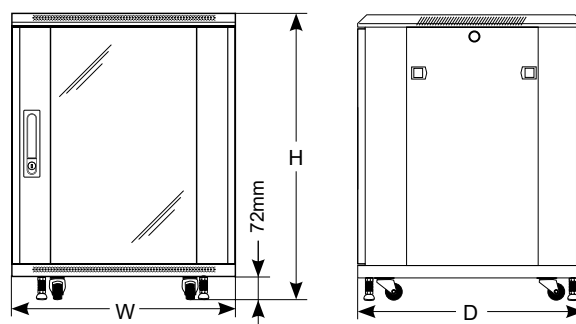


Ventilation holes / End caps



Fully assembled

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



Sample product: ZRS2768



Internet



Computer network



Closed-circuit television CCTV



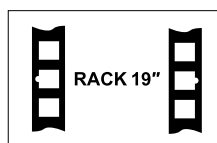
Alarm system

Accessories for RACK 19" cabinets

Enclosure for alarm control panel – vertical

RACK 19"

RAW07 metallic 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 for transformer of TRP / and TRZ series and built-in power supply units of PS / PSB / and PSG2 series by Pulsar. Hinged mounting plate (level II) has holes for mounting for control panels and expansion modules from following companies: DSC, PARADOX, RISCO, SATEL, PYRONIX, CROW, and ROGER.



Standard RACK 19"



Tamper switch detecting enclosure opening x 2



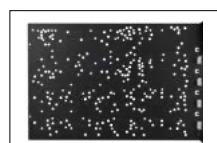
Removable hinges



Bushings

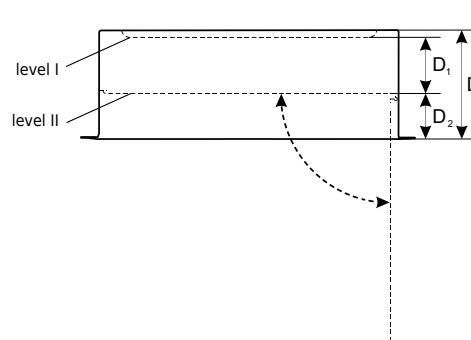
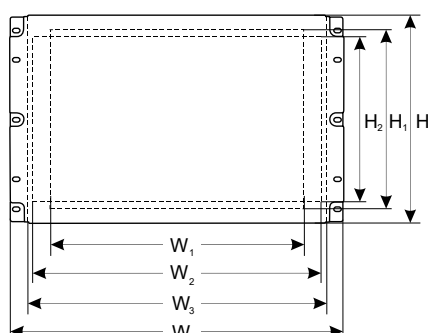


Mounting plate – for mounting transformer + place for battery



Mounting plate – hinged

Code	Static load	Mounting dimensions WxH	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	20 kg	19"×7U	483 / 431 / 310 / 152	350×268×85	400×262×55



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"

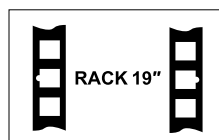
RACK security enclosures are designed for mounting alarm control panel and input / output modules in free-standing RACK 19" cabinets with depths in range from 800 to 1000 mm. They consist of two elements:

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"



Recommended battery/
batteries 7Ah/17Ah



230 V connector



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



Tamper switch
indicating pulling
out of enclosure



Tamper switch
detecting enclosure
opening



Tamper switch
indicating front
panel opening

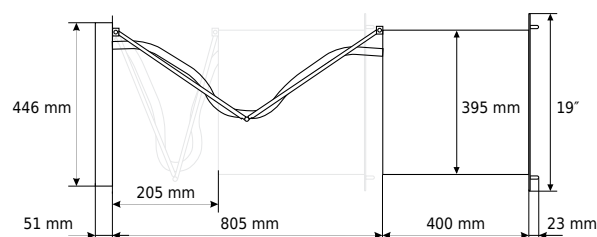
Code	Signal wires (pairs × cross-section)	Number of PCB boards	Maximum current	Recommended battery	Mounting dimensions W×H	Mounting plate (level I)	Hinge mounting plate (level II)
ARAD-S2	24 × 0,5	3	1,5A / 30 V DC	7Ah / 12V	19"×2U	250×260 (358×330)	n/a
ARAD-S4	48 × 0,5	6	1,5A / 30 V DC	17Ah / 12V	19"×4U	155×278 (360×342)	370×284 (370×352)

**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...N/ARAD...SN enclosures

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.

RACK 19"



Sample product:
ARAD2N

Code	Dedicated for RACK 19" cabinets with depth	Installation		Mounting dimensions W×H	Dimensions W ₁ ×D ₁ ×H ₁ [±/- 2mm]	Mounting plate (level I) W ₂ ×D ₂ ×H ₂ [±/- 2mm]	Hinged mounting plate (level II) W ₃ / D ₃ / H ₂ / H ₃ / H ₄ [±/- 2mm]	
		ARAS...N sliding rails	Front mounting (without ARAS...N rails)					
ARAD1SN	450	—	✓	19"×1U	415×270×44	brak, H ₁ =40	n/a	
ARAD2SN		Accordingly to cabinet's depth: • depth 450 – ARAS450N • depth 600 – ARAS600N • depth 800 – ARAS800N • depth 1000 – ARAS1000N	✓	19"×2U	415×270×87	368×228×76	n/a	
ARAD3SN			✓	19"×3U	415×270×132	368×228×121	n/a	
ARAD4SN			✓	19"×4U	415×270×176	368×228×159	372 / 220 / 108 / 77 / 47	
ARAD2N	600 / 800 / 1000		✓	19"×2U	415×400×87	368×358×76	n/a	
ARAD3N			✓	19"×3U	415×400×132	368×358×121	n/a	
ARAD4N			✓	19"×4U	415×400×176	368×358×159	372 / 350 / 108 / 77 / 47	

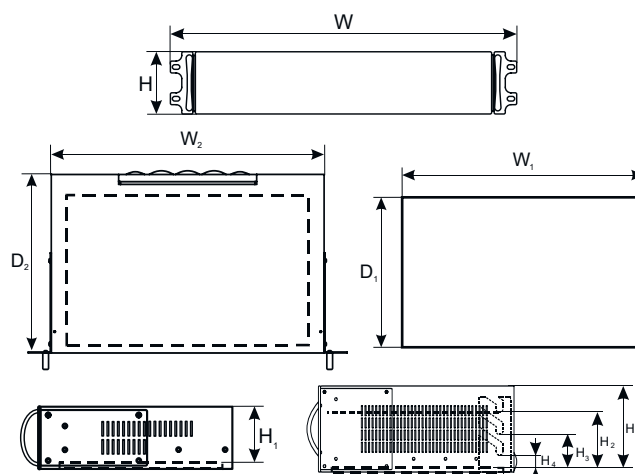
Sample product: ARAD2N



Front mounting 4x M6



Mounting with dedicated
ARAS...N rails - full extension slide



Possible to be mounted inside enclosure:



Accessories for ARAD...N/ARAD...SN

ARAS...N rails for ARAD...N/ARAD...SN enclosures

Code	For RACK cabinets with depth				Mounting dimensions W×H	Adjustment D÷D ₁ [±2mm]	Dimensions H [±2mm]
	450	600	800	1000			
ARAS450N	✓	—	—	—	19"×1U	261÷377	40.1
ARAS600N	—	✓	—	—	19"×1U	330÷449	
ARAS800N	—	—	✓	—	19"×1U	504÷630	
ARAS1000N	—	—	—	✓	19"×1U	666÷792	



ARAS...N rails



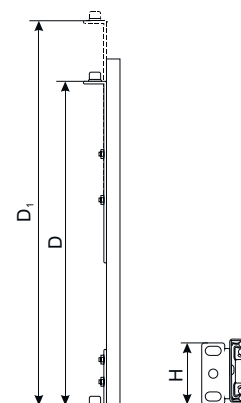
ARAW45 fan



ARAP16P, ARAP21P
glands



MM019, MM020
cable protection conduit



Accessories for RACK 19" cabinets

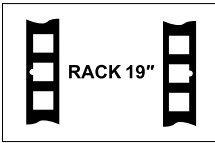
Drawers

RACK 19"

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



Sample product:
RASR3



Standard RACK 19"



Front mounting

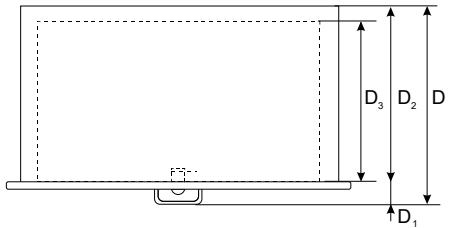
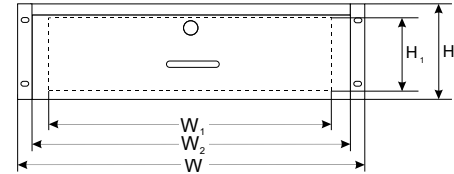


Lock



Partial extension
slide

Code	Mounting dimensions $W \times H \times D_2$	Dimensions $W \times H \times D$ [+/- 2mm] $W_1 \times H_1 \times D_3$ [+/- 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"

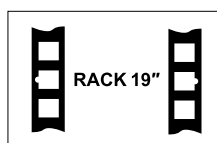
ARADIN1 – Voltage distribution panel is intended for mounting S type fuses: in RACK 19" cabinet. One enclosure can accommodate max. 24 fuses, 1S wide.

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.

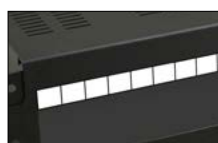
RADIN – Mounting plate of 4U high with DIN rail is designed for mounting devices on DIN rail in rear side of RACK 19" cabinets. Combination of rail with steel plate ensures tight mounting of device on rail including possibility of attaching power cables / signal cables to mounting plate. RADIN offers 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

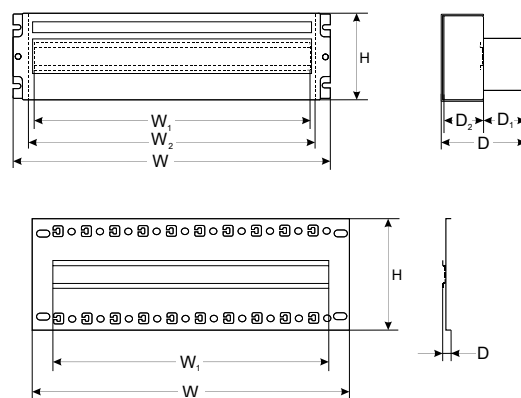


DIN rail



Front mounting

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	482×131×140 435 / 444 / 70 / 62
ARADIN2	24	19"×3U	482×131×235 435 / 444 / 70 / 162
ARADIN3	24	19"×4U	482×174×235 435 / 444 / 70 / 162
RADIN	25	19"×4U	483×176×21 440 / - / - / -



Sample product: ARADIN3



Possibility of installing:



Electric fuses
of „S" type



Power supply units



Battery
18Ah/12V



Access control
(AC)



Operating
automation module



Accessories for RACK 19" cabinets

Fixed shelves

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.

RAPDS – Shelf dedicated to switches:
S64, S108, S108-90W
SG64, SG108, SG108-90W
SFG64, SFG64F1

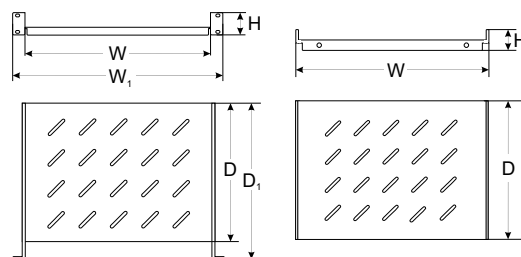
RAPS... – Fixed shelves for RACK 19" cabinets of RWA / RW / RWD / RS and ZRS type. They are side mounted in RACK profiles.

RACK 19"



Sample product:
RAPD600

Code	For RACK cabinets, type / Depth								Shelf dimensions WxD [+/- 2mm]	External dimensions W ₁ / H / D ₁ [+/- 2mm]
	RWA		RW		RWD	RS and ZRS				
	450	600	450	600	600	600	800	1000		
RAPD600	✓	✓	✓	✓	✓	✓	✓	✓	445×315	483 / 87 / 350
RAPDS	✓	✓	✓	✓	✓	✓	✓	✓	445×242	485 / 45 / 242
RAPS450	✓	—	✓	—	✓	—	—	—	485×250	— / 48 / —
RAPS600	—	✓	—	✓	—	✓	—	—	485×350	— / 48 / —
RAPS800	—	—	—	—	—	—	✓	—	485×550	— / 48 / —
RAPS1000	—	—	—	—	—	—	—	✓	485×750	— / 48 / —



Accessories for RACK 19" cabinets

Sliding shelves

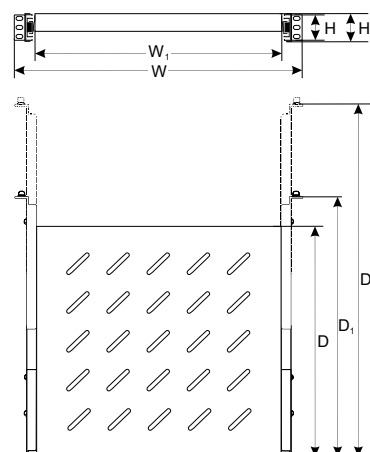
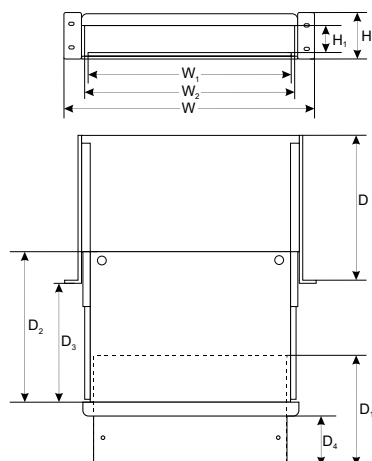
RAPW-K – Pull out shelf for keypads and mouse dedicated for free-standing RACK cabinets with computer to monitor / configure devices included in system.

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 15kg load capacity and full extension slide possibility which guarantees easy access to devices mounted inside RACK cabinets.



Sample product:
RAPW600

Code	For RACK cabinets, type / Depth								Static load	Mounting dimensions W×H	Shelf dimensions W ₁ ×D ₁ [+/- 2mm]	Adjustment D ₁ +D ₂ [+/- 2mm]
	RWA		RW		RWD	RS and ZRS						
	450	600	450	600	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	420×280	261+390
RAPW600	—	✓	—	✓	—	✓	—	—	15 kg	19"×1U	420×400	412+610
RAPW800	—	—	—	—	—	—	✓	—	15 kg	19"×1U	420×550	463+661
RAPW1000	—	—	—	—	—	—	—	✓	15 kg	19"×1U	420×730	623+822



Accessories for RACK 19" cabinets

Mounting rails

RACK 19"

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

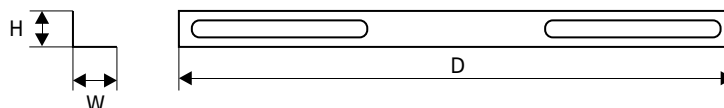


Sample product:
RASM800-120



Sample product:
RASM600

Code	For RACK cabinets, type / Depth								Dimensions WxD [+/- 2mm]	Static load [kg]
	RWA		RW		RWD	RS and ZRS				
	450	600	450	600	600	600	800	1000		
RASM600	—	✓	—	✓	—	✓	—	—	45×350	60
RASM800	—	—	—	—	—	—	✓	—	45×550	60
RASM800-120	—	—	—	—	—	—	✓	—	44×550	120
RASM1000	—	—	—	—	—	—	—	✓	45×750	60
RASM1000-120	—	—	—	—	—	—	—	✓	44×750	120



Accessories for RACK 19" cabinets

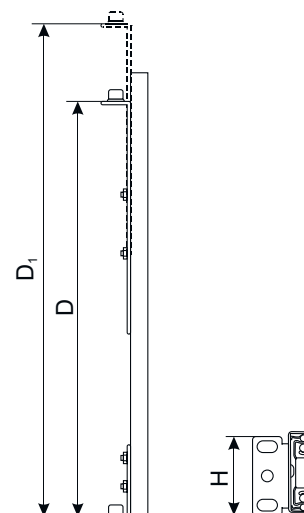
Sliding mounting rails

ARAS...N rails for ARAD...N/ARAD...SN enclosures.



Sample product:
ARAS450N

Code	For RACK cabinets with depth				Mounting dimensions WxH	Adjustment D÷D ₁ [+/- 2mm]	Dimensions H [+/- 2mm]
	450	600	800	1000			
ARAS450N	✓	—	—	—	19"×1U	262÷388	40.1
ARAS600N	—	✓	—	—	19"×1U	415÷610	
ARAS800N	—	—	✓	—	19"×1U	507÷705	
ARAS1000N	—	—	—	✓	19"×1U	668÷794	

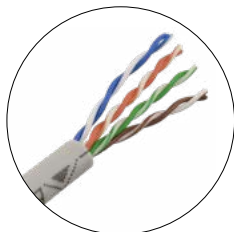


Accessories for RACK 19" cabinets

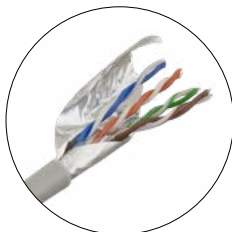
Patch panels – Cat. 5e and 6 – UTP / FTP

RACK 19"

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



UTP twisted pair (unshielded)

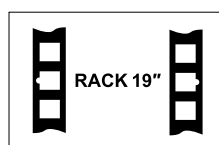


FTP twisted pair (shielded)

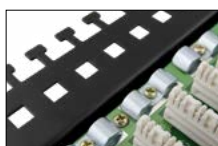


Sample product:
RP-F24V6

Applies: RP-F24V5 and RP-F24V6



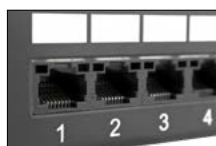
Standard RACK
19"×1U



Twisted pair
assembly



Graphic
designation A / B



Label field
of RJ45 connector



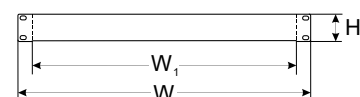
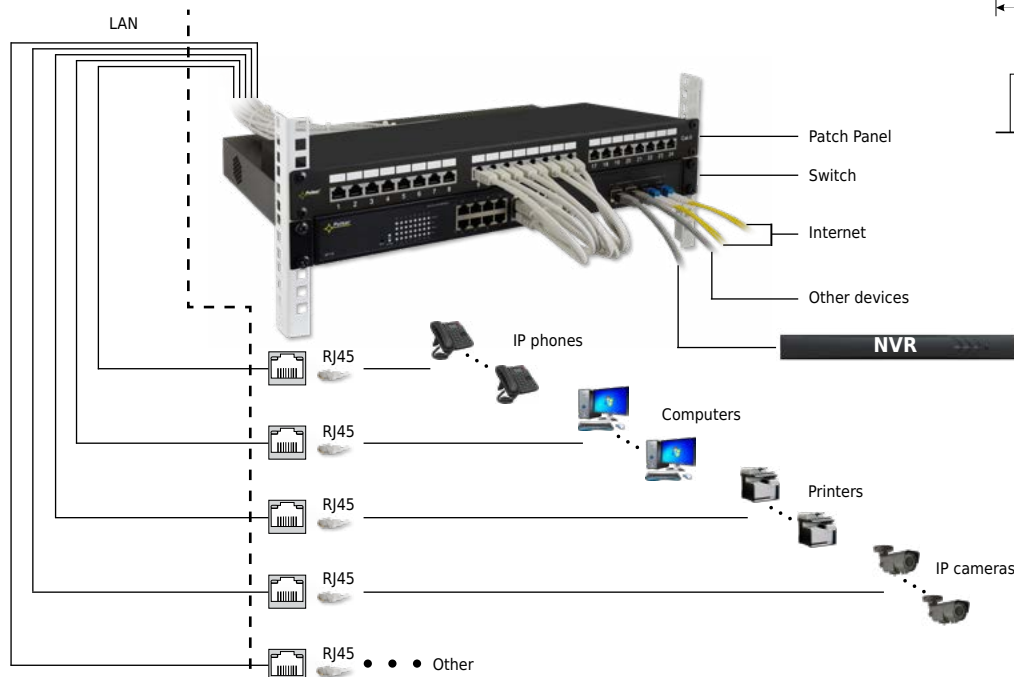
Grounding wire



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 230 V AC non-detachable power cable with 2m length.

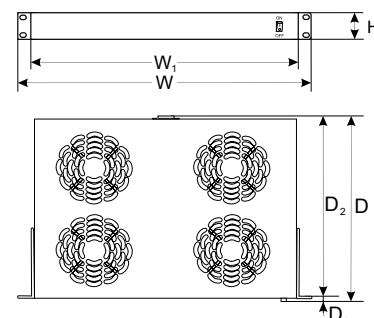
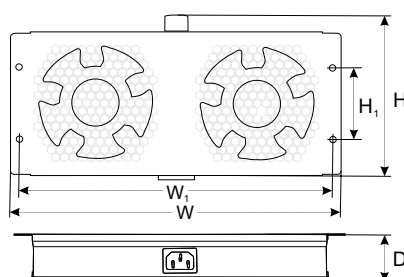
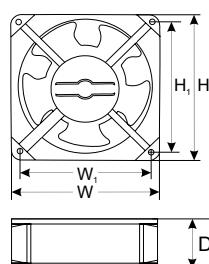
RAWP – Panel of two fans designed for mounting in upper plate of free-standing RACK cabinets of RS / ZRS type. Forces air circulation from inside cabinet to outside. Mounted from outside, in upper part of RACK cabinet. Possibility of cascade connection of panels. It is fitted with 230 V AC detachable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



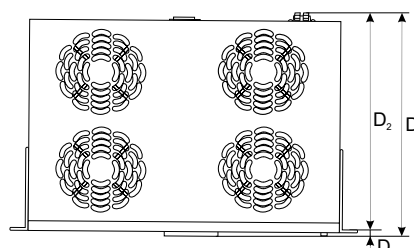
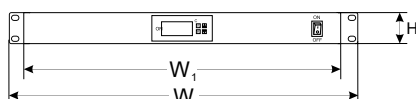
Accessories for RACK 19" cabinets

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 230 V AC detachable power cable 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	482×44×314 430 / 10 / 305



Accessories for RACK 19" cabinets

Thermostats

RACK 19"

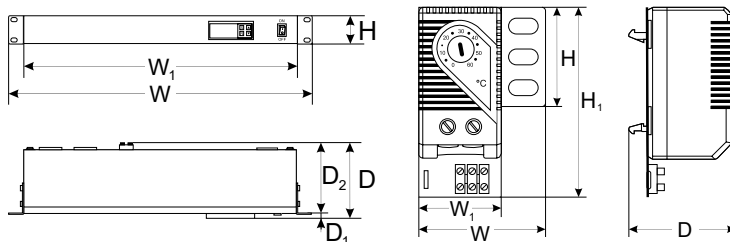
RAT – Bimetallic thermostat dedicated for controlling fan units of RAW1 / RAW2 and RAWP type. Equipped with 1 U metal bracket for mounting on RACK profile.

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 230 V AC detachable power cable 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

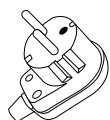
Power distribution units

Power distribution units are mounted between RACK profiles. They enable plugging up to 8 devices supplied with 230 V AC.

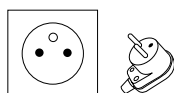


Sample product:
RALZ/F

RALZ

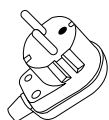


plug:
type: E/F
(„Unischuko”)

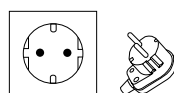


socket:
type: E

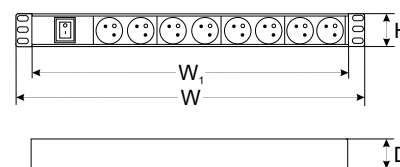
RALZ/F



plug:
type: E/F
(„Unischuko”)



socket:
type: F
(„Schuko”)



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”				

Accessories for RACK 19" cabinets

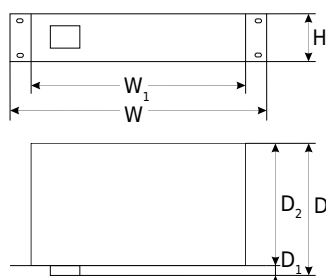
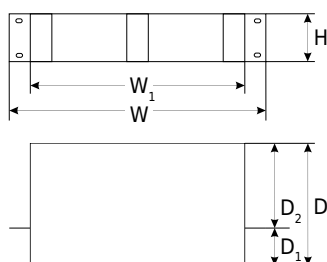
Battery enclosures

RACK 19"

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

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

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



RAKU2



RAKU3

Accessories for RAKU2:



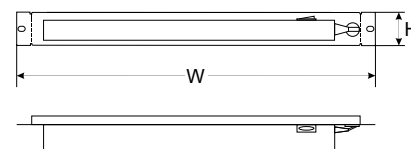
RAKU2-ZP

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.

Code	Power supply	Mounting dimensions W×H
RAOS	230 V AC / 5W	19"×1U



Accessories for RACK 19" cabinets

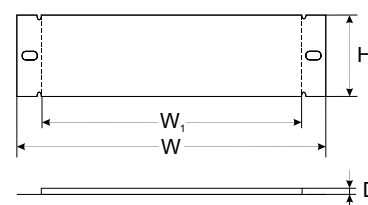
Blanking panels

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

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



Sample product:
RAPZ4



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 connectors in RACK 19" cabinets.



RAP-F



RAP-RJ45



RAP-SCAPC1



Sample product:
RAP-RJ45

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			
RAP-SCAPC1	SC / APC	SC/APC-1SM			

Accessories:



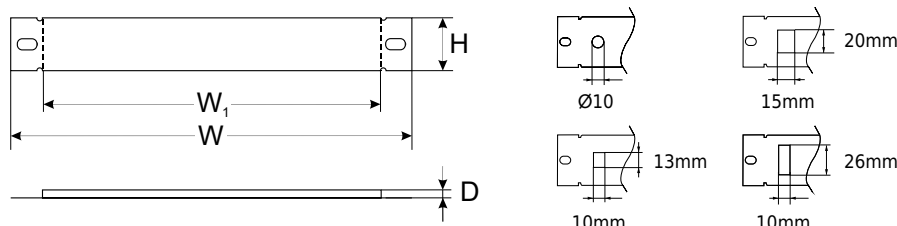
GF-GF-K



SC/APC-1SM



SC/APC-2SM



Accessories for RACK 19" cabinets

Cable management panels

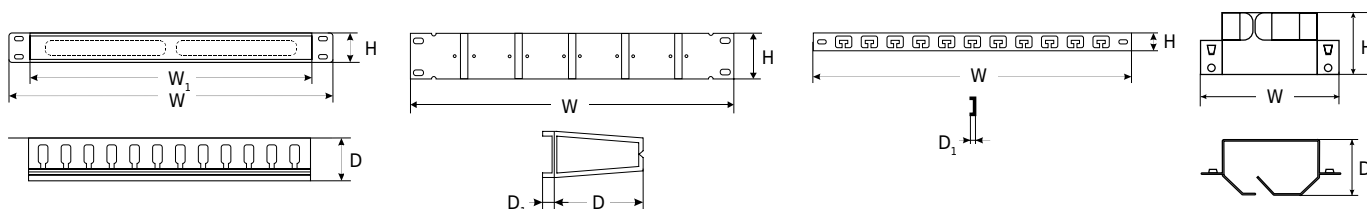
RAOK-1M/P/T – Cable management panels are designed to organize and protect horizontal cabling in RACK cabinet against accidental damage.

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	482×44×68
RAOK-1T	19"×1U	483×35×11
RAOK-LR	—	116×52×45



Accessories for RACK 19" cabinets

Brush grommets

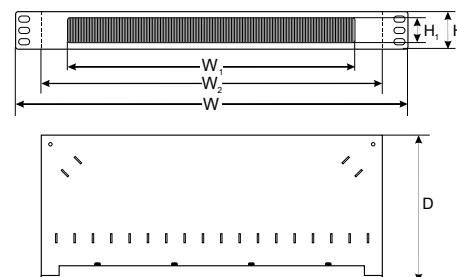
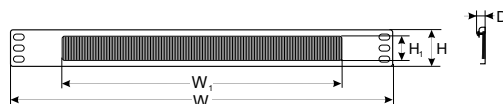
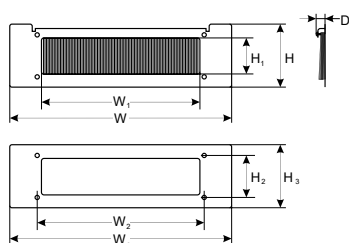
RACK 19"

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



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



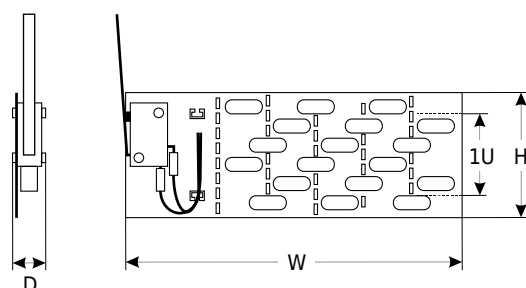
Accessories for RACK 19" cabinets

Tampers

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



Code	For RACK cabinets	External dimensions W×H×D [± 2mm]
RWST	RW / RWA / RWD / RS / ZRS	153×66×17

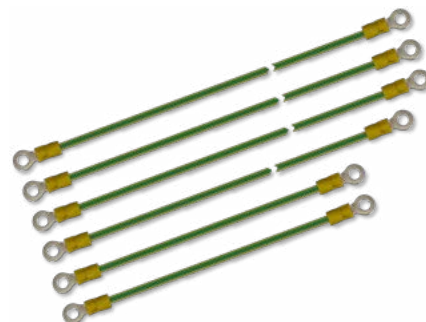


Accessories for RACK 19" cabinets

Grounding wires

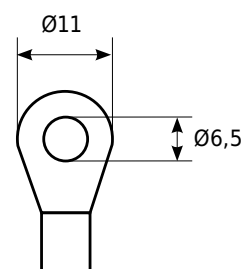
Sets of grounding wires are designed to ground all components of RACK 19" cabinets.

RACK 19"



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

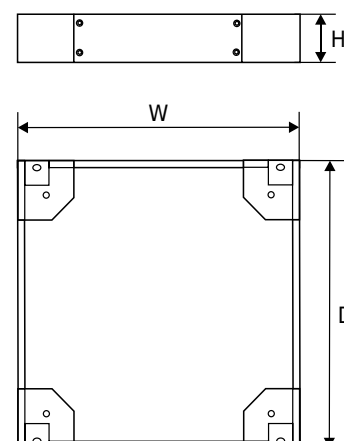
Plinths

Plinths with height of 100mm are designed for RS and ZRS free-standing cabinets. Allow 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

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

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

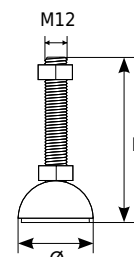
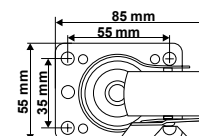
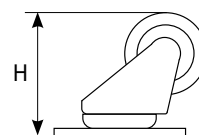
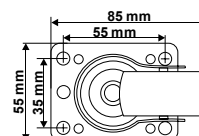
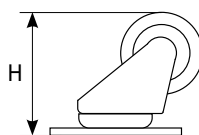
RAN – Leveling feet are for leveling and stabilising RACK cabinet.

RACK 19"



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, 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.



RAZ-S



RAZB16



RAS4

Code	Dimensions [± 2mm]
RAZ25	D=29
RAZB16	D=13
RAZ-D	D=26
RAZ-S	34×140×30
RAS4	M6×16

Other accessories

Connectors



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



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



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

Cables



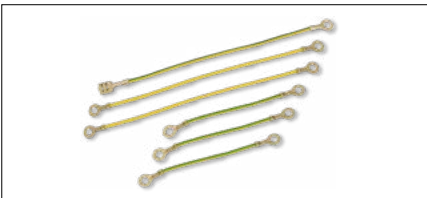
PSD13
Cable 230 V AC 3x0.75mm², 2m, CEE 7/7 (EF),
IEC C13 angled plug



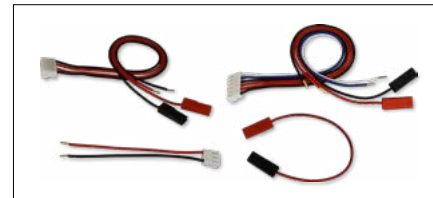
SP4
Splitter 4 DC 5.5/2.1



SP8
Splitter 8 DC 5.5/2.1



PKAZ040
Set of grounding cables to enclosures



PKAZ041
Set of wires dedicated to power supplies PSC series of
Mean Well

Set for EMPTY enclosures

Tampers



PKAZ158
Mounting set is intended
to EMPTY enclosures



PKAZ196
Mounting set is intended
to DSC EMPTY enclosures



ML101
TAMPER S



PKAZ066
Tamper switch detachment
from surface 8mm with wires



PKAZ067
Tamper switch detachment
from surface 14mm with wires

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

DIN brackets



DIN1
DIN holder for power supply
units and transformers



DIN2
DIN holder for power supply
units and transformers



DIN3
DIN holder for power supply units



DIN4
DIN holder for power supply units



PKAZ107
Mounting kit for DIN rail

Mounting plate



BM1
Mounting plate BM1



BM2
Mounting plate BM2

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



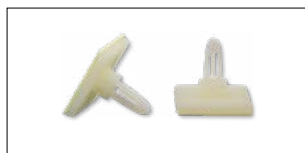
RAS4
Screw set RACK 4 pcs.



OZB2 / OZB3 / OZB4
Pole mount bracket



PW100
Mounting pin Ø6



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

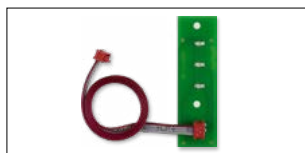
Others



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



ARAW45
Fan with temperature sensor 45°C

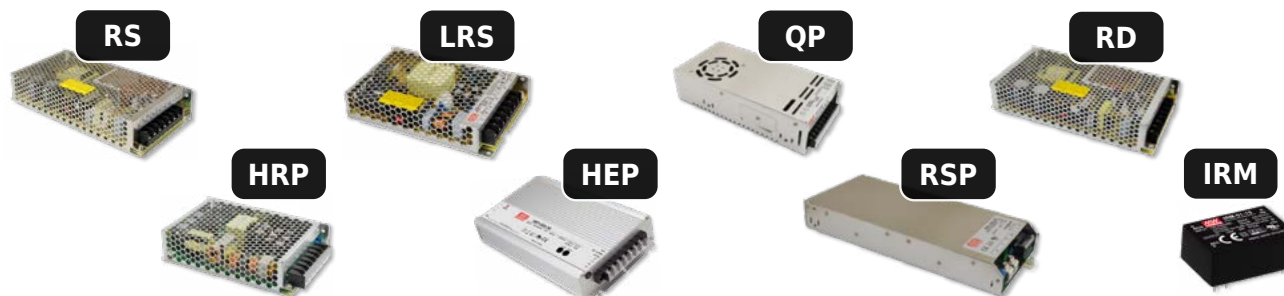


PKAZ168
Set for optical indication



ZPR
Set of two straps for mounting recorder

Enclosed power supply units



Power supply units for DIN rail



Buffer power supply units



Power supply units for DIN rail – with battery backup



Power supplies for LED lighting



DC/AC inverters

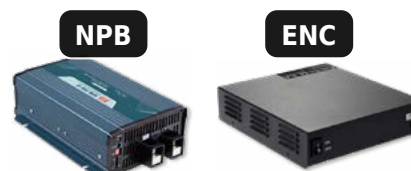
- with full sinusoid
- with full sinusoid and UPS function
- with modified sinusoid
- input voltage $U_{in} = 12 \text{ V DC} / 24 \text{ V DC} / 48 \text{ V DC}$
- output voltage $U_{out} = 110 \text{ V AC} / 230 \text{ V AC}$



DC/DC converters



Battery chargers



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