







Class leading availability Three-phase UPS 10-250 KW





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Maximized Flexibility

Integrated autonomies and matching battery cabinets

Up to 160 battery blocks can be fitted in the PremiumTower 10 to 60 kW, reducing the total footprint and optimizing costs. For higher ratings and extended runtime, matching battery cabinets are available.

Flexible battery blocks

The flexibility in the number of battery blocks (20 to 50), eliminates the need to oversize the batteries and allows system designers to optimize cost versus autonomy time.

Compatible with different battery technologies

Lead acid, Gel, NiCd, Flywheels, Lithium and other types of energy accumulators can be used with PremiumTower™.

Dual or single input feed

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PremiumTower can be supplied with two independent AC sources to further increase the power availability of the installation.



Unbeatable Efficiency 96.6%

Increased nominal rating (kW = KVA)

Near unit input power factor at full or partial loads

Compact mechanics with only 0.36 m2 for 120 kW

Ease of service with front access only

500% higher charging current than typical standalone UPS



Scalable and Robust Design

From 10 to 250 kW, **PremiumTower™** is a Swiss made three-phase, online double-conversion Uninterruptible Power Supply. Configurable as a standalone UPS or as a parallel multi-cabinet system, PremiumTower provides the ultimate flexibility for future growth.

PremiumTower offers scalability of up to 7.5 MW, delivering the best power protection for data centers, comms rooms, IT networks, manufacturing and any mission-critical applications demanding high availability.

Advanced Performance

High reliability by design

Three independent power converters increase system reliability and provide power continuity even in cases of power component failure.

Market leading charging current

With the ability to provide up to 5 times more charging current than typical standalone, PremiumTower reduces the total system cost by eliminating the need for external battery chargers.

Outstanding overload capacity

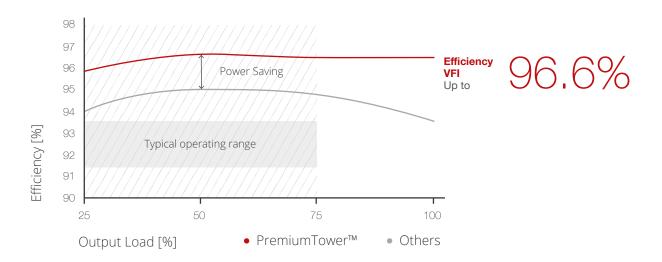
With a 120% continuous operation in overload condition, mission-critical applications can be safe in the event of unexpected load demands.

Short circuit capability

With a Short Circuit capability of 3 times nominal current (3 x In), PremiumTower is able to clear output circuit protection in milliseconds.

Lowest Total Cost of Ownership

PremiumTower™ delivers unbeatable energy efficiency in a robust and compact design.



High efficiencies in VFI and ECO mode

PremiumTower provides optimized partial and full load efficiencies of up to 96.6% in online doubleconversion mode.

In Ultra-Safe ECO mode the UPS provides an excellent power quality with 99.4% efficiency.

Minimized footprint (save of valuable floor space)

From 0.29 m² (for 10 - 60 kW) to 0.6 m² (for 250 kW), PremiumTower optimizes valuable floor space, eliminates the cost of the battery cabinet, and simplifies the installation.

Easy to service

Minimized maintenance and repair time contribute to keeping the systems' high availability.

Front access

Front access for service and maintenance removes the need for unnecessary movement and relocation of the UPS.

Swappable plug and play internal components

Critical components are easily swappable, reducing repair time and costs.

User-friendly display

The display and LED interface (optional touchscreen) give immediate visibility to the status of the UPS.

Always connected

Real-time remote monitoring allows for close control of the UPS parameters, preventing downtime and allowing for proactive maintenance.

Communication

Remote monitoring Graphical display

Generator operation mode Auxiliary contacts

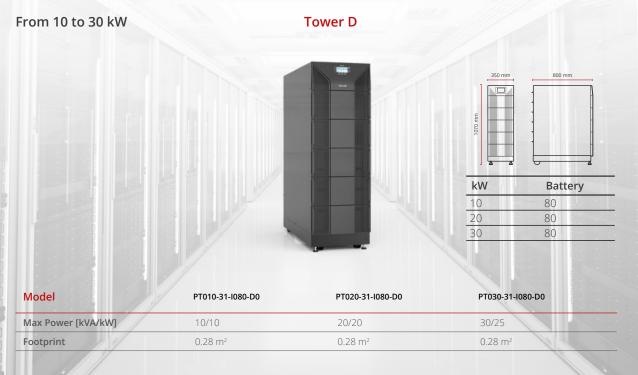
Output general alarms Dry contacts

Programmable input and output Dry contacts Compensated battery charging Temperature probe

SNMP, Modbus, ModBus over IP Slide-in adaptors

Simplified service RS232 and Bluetooth app

PremiumTower™ 3:1



PremiumTower™ 3:3

From 10 to 250 kW

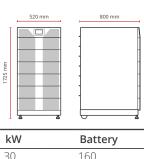
350 mm	800 mm
1070 mm	

kW	Battery				
10	80				
20	80				
30	-				
40	-				
60	-				



Tower D





IX V V	Dattery				
30	160				
40	160				
60	160				

Model	PT010-I080-D0	PT020-1080-D0	PT030-E-D0 PT030-I160-E0	PT040-E-D0 PT040-I160-E0	PT060-E-D0 PT060-I160-E0
Max Power [kVA/kW]	10/10	20/20	30/30	40/40	60/60
Footprint	D 0.29 m ²	D 0.29 m ²	D 0.29 m ² E 0.44 m ²	D 0.29 m ² E 0.44 m ²	D 0.29 m ² E 0.44 m ²

Tower F

Tower H





Model	UPS-PT080-E30-F0 UPS-PT080-E40-F0	UPS-PT100-E30-F0 UPS-PT100-E40-F0	UPS-PT120-E30-F0 UPS-PT120-E40-F0	UPS-PT160-E30-H0 UPS-PT160-E40-H0	UPS-PT200-E30-H0 UPS-PT200-E40-H0	UPS-PT250-E40-H0
Max Power [kVA/kW]	80/80	100/100	120/120	160/160	200/200	250/250
Footprint	F 0.36 m ²	F 0.36 m ²	F 0.36 m ² G 0.60m ²	G 0.60m ²	H 0.60 m ²	H 0.60m ²

Tower E

PremiumTower TM Technical Datasheet - From 10kVA/kW to 60kVA/kW

MODEL	UPS-PT010-I080-D0	UPS-PT020-1080-D0	UPS-PT030-E-D0 UPS-PT030-I160-E0	UPS-PT040-E-D0 UPS-PT040-I160-E0	UPS-PT060-E-D0 UPS-PT060-I160-E0		
GENERAL DATA							
Product name	PremiumTower™ UPS						
Topology/Technology	Online double conversion						
Max Power [kVA/kW]	10	20	30	40	60		
INPUT							
MAINS							
Input Wiring	3Ph+N+PE						
Rated Voltage	380 / 400 / 415Vac						
Voltage Range	For loads <100% (-25%	%, +20%) <80% (-32.5%	6, +20%) <60% (-35%, -	+20%)			
Input Frequency	40-70 Hz						
Total Harmonic Distortion	THDi < 3% for linear loa	ad, THDi < 5% for non-lir	near load				
Input Power Factor	0,99						
BYPASS							
Input Wiring	3Ph+N+PE						
Rated Voltage	380 / 400 / 415 Vac						
Change over tolerance	± 30 ± 10% (Voltage)	(According to VFI-SS-111)				
Input Frequency	50/60 ± 2/4% (selectab	ole)					
BATTERY							
Туре	Lead-Acid/NiCad/Lithiu	IM					
Rated Voltage	360-480 Vdc (the numl	ber of batteries can be s	elected)				
Internal Batteries (7/9Ah)	1080 80	1080 80	E External I160 160	E External I160 160	E External I160 160		
Blocks [LA]/Cells[NicAd]	Flexible: 3050		· · · · · ·				
Charger (Amp)	20	20	40	40	40		
OUTPUT				· · · · · · · · · · · · · · · · · · ·			
INVERTER							
Nominal Power [kW]	10	20	30	40	60		
Output Wiring	3Ph+N+PE						
Voltage	380 / 400 / 415 Vac ± 1	1%					
Frequency	Tracking the bypass ing	put (Online Mode); 50/60) Hz ± 0.1% (Battery Mod	le)			
Waveform		for linear load; THDv < 3					
Output Power Factor	1						
Efficiency	96,6%						
Overload Capacity	Inverter < 120% conti	inuous; ≥ 125% for 10 m	in; ≥ 150% for 1 min B	ypass 135% for long terr	n; <1000% for 100ms		
Short circuit capability	3 x I _N						
BYPASS	14						
Efficiency	99,4%						
ENVIRONMENT							
Operating Temperature	0-40°C (No power dera	ating)					
Storage Temperature	-40-70°C	0,					
Relative Humidity	0%-95% (No condensir	ng)					
Maximum Operating Altitude		n, derating 1% for each a	dditional 100 m				
Audible Noise	< 65dB	,					
OTHERS							
Dimensions (H x W x D) [mm]	D0 1,075 x 350 x 850	E0 1.725 x 520 x 850					
Weight [Kg] without batteries	D0 80 E0 105	, ,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>					
Colour / Protection Level	RAL 9017 (traffic black)	/ IP20					
Certifications		EC 62040-2 EN/IEC 620)4()-3 (F RoHS				
c. aneadons		In, 1 x Dry Out, 2x Expar					
Communications		contacts, 4 x Dry Input (

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PremiumTower TM Technical Datasheet - From 80kVA/kW to 250kVA/kW

MODEL	UPS-PT080-E30-F0 UPS-PT080-E40-F0	UPS-PT100-E30-F0 UPS-PT100-E40-F0	UPS-PT120-E30-F0 UPS-PT120-E40-H0	UPS-PT160-E30-H0 UPS-PT160-E40-H0	UPS-PT200-E30-H0 UPS-PT200-E40-H0	UPS-PT250-E40-H0	
GENERAL DATA							
Product name	PremiumTower™ U	PS					
Topology/Technology	Online double conver	rsion					
Max Power [kVA/kW]	80	100	120	160	200	250	
INPUT							
MAINS							
Input Wiring	3Ph+N+PE						
Rated Voltage	380 / 400 / 415Vac						
Voltage Range	For loads <100% (-25	5%, +20%), <80% (-32.	.5%, +20%), <60% (-35%	%, +20%)			
Input Frequency	40-70 Hz						
Total Harmonic Distortion	THDi < 3% for linear l	oad, THDi < 5% for no	n-linear load				
Input Power Factor	0,99						
BYPASS							
Input Wiring	3Ph+N+PE						
Rated Voltage	380 / 400 / 415 Vac						
Change over tolerance	± 30 ± 10% (Voltage) (According to VFI-SS-	-111)				
Input Frequency	50/60 ± 2/4% (selecta	able)					
BATTERY							
Туре	Lead-Acid / NiCad / Li	ithium					
Rated Voltage	360 - 480 Vdc (the nu	Imber of batteries can	be selected)				
Blocks [LA] /Cells[NicAd]	E30 flexible from 20 t	to 50 E40 flexible fro	m 24 to 50				
Charger (Amp)	64	80	96	120	160	160	
OUTPUT							
INVERTER							
Nominal Power [kW]	80	100	120	160	200	250	
Output Wiring	3Ph+N+PE						
Voltage	380 / 400 / 415 Vac ±	1%					
Frequency	Tracking the bypass in	nput (Online Mode); 5	0/60 Hz ± 0.1% (Battery	Mode)			
Waveform	Sine wave (THDv < 29	6 for linear load; THDv	v < 3% for non-linear loa	ad)			
Output Power Factor	1						
Efficiency	96,6%						
Overload Capacity	Inverter < 120% cont	tinuous; ≥ 125% for 10	0 min; ≥ 150% for 1 mir	n Bypass 135% for lo	ng term; <1000% for 10	00ms	
Short circuit capability	3 x I _N						
BYPASS							
Efficiency	99,4%						
ENVIRONMENT							
Operating Temperature	0-40°C (No power de	rating)					
Storage Temperature	-40-70°C						
Relative Humidity	0%-95% (No condensing)						
Maximum Operating Altitude	1000 m. Above 1000 m, derating 1% for each additional 100 m						
Audible Noise	< 78 dB						
OTHERS							
Dimensions (H x W x D) [mm]	F0 1,990x604x600 H0 1,990 x 900 x 682						
Colour / Protection Level	RAL 9017 (traffic black) / IP20						
Certifications	EN/IEC 62040-1 EN/IEC 62040-2 EN/IEC 62040-3 CE RoHS						
Communications	Standard 1 x RS232,	1x RS485, 5 x Dry out	put contacts, 4 x Dry in	put contacts, Bluetooth	n, SNMP slot		



PremiumTower™





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