





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

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

20 to 50 Flexible Battery Blocks

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



Power density $415 \, \text{km}^2$



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

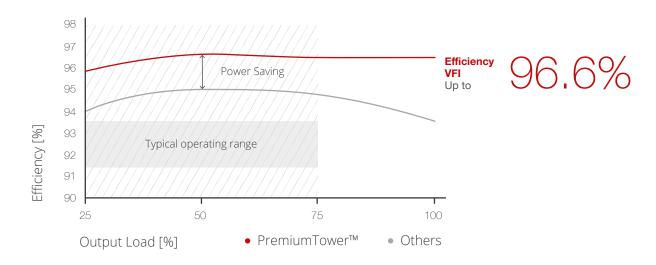
With a 120% continuous operation in overload condition, mission-critical applications can be safe in the event of unexpected load demands.

Short circuit capability

With a Short Circuit capability of 3 times nominal current (3 \times 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 double-conversion 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

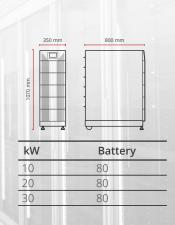
Slide-in adaptors

Simplified service

RS232 and Bluetooth app





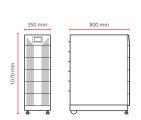


Model	PT010-31-I080-D0	PT020-31-I080-D0	PT030-31-I080-D0
Max Power [kVA/kW]	10/10	20/20	30/25
Footprint	0.28 m ²	0.28 m ²	0.28 m ²

PremiumTower™ 3:3

From 10 to 250 kW

Tower E

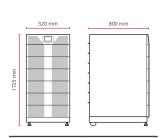


kW	Battery
10	80
20	80
30	-
40	- 4 ()
60	-



Tower D





kW	Battery
30	160
40	160
60	160

Model	PT010-I080-D0	PT020-I080-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 G

Tower H







Model	UPS-PT080-E30-F0 UPS-PT080-E40-F0	UPS-PT100-E30-F0 UPS-PT100-E40-F0	UPS-PT120-E30-G0 UPS-PT120-E40-F0	UPS-PT160-E30-G0 UPS-PT160-E40-G0	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 0.44m ²	G 0.44m ²	H 0.60 m ²	H 0.60m ²



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MODEL	UPS-PT010-I080-D0	UPS-PT020-I080-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™ UP	S			
Topology/Technology	Online double convers	ion			
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% (-32.59	6, +20%) <60% (-35%, -	+20%)	
Input Frequency	40-70 Hz				
Total Harmonic Distortion	THDi < 3% for linear lo	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		·		
BATTERY					
Туре	Lead-Acid/NiCad/Lithiu	ım			
Rated Voltage	360-480 Vdc (the num	ber of batteries can be s	elected)		
Internal Batteries (7/9Ah)	1080 80	1080 80		E External I160 160	E External I160 160
Blocks [LA]/Cells[NicAd]	Flexible: 3050	1000 00	E External 1100 100	E External 1100 100	E Excernar 1100 100
Charger (Amp)	20	20	40	40	40
OUTPUT		20			
INVERTER					
Nominal Power [kW]	10	20	30	40	60
Output Wiring	3Ph+N+PE	20			
Voltage	380 / 400 / 415 Vac ± 1	106			
Frequency			Hz ± 0.1% (Battery Mod	[a]	
Waveform		for linear load; THDv < 3			
Output Power Factor	1	Tor inical load, Triby 15	70 TOT TIOT IIITCAT TOUCY		
Efficiency	96,6%				
Overload Capacity		inuous: > 125% for 10 m	in: > 1E00/ for 1 min P	ypass 135% for long terr	o: <1000% for 100ms
		1110003, 2 12370 101 1011		ypass 133% for forigiters	11, \1000% 101 1001113
Short circuit capability BYPASS	3 x I _N				
	99,4%				
Efficiency	99,470				
ENVIRONMENT	0.4000 (N)====================================				
Operating Temperature	0-40°C (No power dera	aung)			
Storage Temperature	-40-70°C				
Relative Humidity	0%-95% (No condensir		1100		
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	EU 1,/25 x 520 x 850			
Weight [Kg] without batteries	D0 80 E0 105				
Colour / Protection Level	RAL 9017 (traffic black) / IP20				
Certifications	EN/IEC 62040-1 EN/I	EC 62040-2 EN/IEC 620	040-3 CE RoHS		
Communications		In, 1 x Dry Out, 2x Expar contacts, 4 x Dry Input			

TDS_Rev1.4 24/05/18

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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-G0	UPS-PT160-E30-G0 UPS-PT160-E40-G0	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%	6, +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	± 30 ± 10% (Voltage	(According to VFI-SS-	111)			
tolerance Input Frequency	50/60 ± 2/4% (selecta					
BATTERY	30/00 ± 2/4/0 (36/66/6	iole)				
	Land Anid / Ni Card / Li	iela i				
Type Rated Voltage	Lead-Acid / NiCad / Li	ımber of batteries can	ha calacted)			
Blocks [LA]		to 50 E40 flexible fro				
/Cells[NicAd]	64	80	96	120	160	160
Charger (Amp) OUTPUT	04	80	90	120	100	100
INVERTER		100		150		0.50
Nominal Power [kW]	80	100	120	160	200	250
Output Wiring	3Ph+N+PE	10/				
Voltage Frequency	380 / 400 / 415 Vac ±			Model		
Waveform		·	< 3% for non-linear loa			
Output Power Factor	1	0 101 1111001 1000, 111100	- 370 101 11011 11111011 100			
Efficiency	96.6%					
Overload Capacity		 tinuous: ≥ 125% for 10) min; ≥ 150% for 1 mir	Bypass 135% for loa	 ng term: <1000% for 10	00ms
Short circuit capability	3 x I _N		,	71.	0 ,	
BYPASS						
Efficiency	99,4%					
ENVIRONMENT	JJ, 770					
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	< 71 dB					
OTHERS						
Dimensions (H x W x D) [mm]	F0 1,985 × 600 × 600	G0 1,985 x 730 x 60	0 H0 1,985 x 860 x 70	00		
Colour / Protection Level	RAL 9017 (traffic blac	k) / 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	out contacts, 4 x Dry in	out contacts, Bluetooth	n, SNMP slot	



PremiumTower™ UPS 300 - 500 kVA/kW

	Model	UPS-PT300-E40-G0	UPS-PT400-E40-G1	UPS-PT500-E40-G1				
			General Data					
Product n	ame	PremiumTower™ UPS						
Topology	/Technology	Online double conversion						
Input								
	Input Wiring 3Ph+N+PE							
	Rated Voltage	380/400/415Vac						
	Voltage Range	-20%, +15% (rectifier);						
Mains	Input Frequency	45-65 Hz	45-65 Hz					
	Total Harmonic Distortion	THDi<3% for linear load, THDi<5	THDi<3% for linear load, THDi<5% for nonlinear load					
	Input Power Factor	> 0.99	>0.99					
	Input Wiring	3Ph+N+PE						
	Rated Voltage	380/400/415 Vac						
Bypass	Change over tolerance	±10% (Voltage) (According to VFI-SS-111)						
	Input Frequency	50/60 ±2/4% (selectable)						
	Rated Voltage	720-744 Vdc (the number of bat	tteries can be selected)					
Battery	Battery cells	External 360 to 372 cells						
	Туре	VRLA (other options)						
			Output					
	Output Wiring	3Ph+N+PE						
	Nominal Power [kVA]	300	400	500				
	Nominal Power [kW]	300	400	500				
	Voltage	380/400/415 Vac±1%						
	Frequency	Tracking the bypass input (Online Mode); 50/60 Hz±0.1% (Battery Mode)						
Inverter	Waveform	Sine wave (THDv < 2% for linear load; THDv < 3% for non-linear load)						
	Output Power Factor	1						
	Efficiency	95.6%						
	Overload Capacity	Inverter: 110% for 10 min; 125% for 5 min, 150% for 30 s Bypass: 150% continuous; 1000% for 1 cycle						
	Short circuit capability	2 x IN						
Bypass	Efficiency	99.0%						
			Environment					
Operating	Temperature	0-40°C (No power derating)						
Storage T	emperature	-40-70°C	-40-70°C					
Relative F	lumidity	0%-95% (No condensing)						
Maximum	Operating Altitude	1000 m. Above 1000 m, derating 1% for each additional 100 m						
Audible Noise <65dB								
			Others					
Dimensions (H x W x D) [mm] G0 : 1,978 x 880 x 970 G1 : 1,978 x 1430 x 970								
Weight [Kg] withouth batteries		675	1080	1250				
Colour / Protection Level RAL 9005 / IP20								
Certificati	ons	EN/IEC 62040-1; EN/IEC 62040-2	2; EN/IEC 62040-3; CE; RoHS					
Commi	cations	Std: 1 x RS232, 2 x Dry In, 1 x Dry C	Out, 2x Expansion slots.					
Communi	Cations	Option: 6 x Dry Output contacts, 4	x Dry Input contacts, Bluetooth, SNMP Slot					



PremiumTower™



