



PremiumTower™

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

centiel

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™ 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%, +20%) <60% (-35%, +20%)				
Input Frequency	40-70 Hz				
Total Harmonic Distortion	THDi < 3% for linear load, THDi < 5% for non-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% (selectable)				
BATTERY					
Type	Lead-Acid/NiCad/Lithium				
Rated Voltage	360-480 Vdc (the number of batteries can be selected)				
Internal Batteries (7/9Ah)	I080 80	I080 80	E External I160 160	E External I160 160	E External I160 160
Blocks [LA]/Cells[NiCad]	Flexible: 30...50				
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%				
Frequency	Tracking the bypass input (Online Mode); 50/60 Hz ± 0.1% (Battery Mode)				
Waveform	Sine wave (THDv < 2% for linear load; THDv < 3% for non-linear load)				
Output Power Factor	1				
Efficiency	96,6%				
Overload Capacity	Inverter < 120% continuous; ≥ 125% for 10 min; ≥ 150% for 1 min Bypass 135% for long term; <1000% for 100ms				
Short circuit capability	3 x I_N				
BYPASS					
Efficiency	99,4%				
ENVIRONMENT					
Operating Temperature	0-40°C (No power derating)				
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	< 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				
Colour / Protection Level	RAL 9017 (traffic black) / IP20				
Certifications	EN/IEC 62040-1 EN/IEC 62040-2 EN/IEC 62040-3 CE RoHS				
Communications	Std 1 x RS232, 2 x Dry In, 1 x Dry Out, 2x Expansion slots, Bluetooth Option 5 x Dry Output contacts, 4 x Dry Input contacts, SNMP Slot				



PremiumTower™

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

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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™ UPS					
Topology/Technology	Online double conversion					
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%, +20%), <80% (-32.5%, +20%), <60% (-35%, +20%)					
Input Frequency	40-70 Hz					
Total Harmonic Distortion	THDi < 3% for linear load, THDi < 5% for non-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% (selectable)					
BATTERY						
Type	Lead-Acid / NiCad / Lithium					
Rated Voltage	360 - 480 Vdc (the number of batteries can be selected)					
Blocks [LA] /Cells[NicAd]	E30 flexible from 20 to 50 E40 flexible from 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 input (Online Mode); 50/60 Hz ± 0.1% (Battery Mode)					
Waveform	Sine wave (THDv < 2% for linear load; THDv < 3% for non-linear load)					
Output Power Factor	1					
Efficiency	96,6%					
Overload Capacity	Inverter < 120% continuous; ≥ 125% for 10 min; ≥ 150% for 1 min Bypass 135% for long term; <1000% for 100ms					
Short circuit capability	3 x I _N					
BYPASS						
Efficiency	99,4%					
ENVIRONMENT						
Operating Temperature	0-40°C (No power derating)					
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 x 600 x 600 G0 1,985 x 730 x 600 H0 1,985 x 860 x 700					
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 output contacts, 4 x Dry input contacts, Bluetooth, SNMP slot					