



PremiumTower [™]

Class leading availibility Three-phase UPS 10-60 KW



www.powerprotection.co.nz

PremiumTower ™

PremiumTower[™] is a Swiss made 3-phase, online double-conversion Uninterruptible Power Supply.

From 10 to 60kW, PremiumTower [™] provides the best solution for small and medium data centers, comms rooms, IT networks and any mission critical application demanding high availability and unbeatable energy efficiency.

PremiumTower[™] offers built-in internal batteries from 10 to 60kW minimizing the footprint utilization, eliminating extra costs for external battery frames and avoiding complex installation.

The flexibility in the number of battery blocks (30 to 50) allows the system designer to optimize costs vs autonomy time.

At the same time, the high efficiency of 96.6% in double conversion (VFI) and 99.4% in Ultra-safe ECO mode guarantees maximum energy savings and the lowest Total Cost of Ownership.



Advanced Performance

Unity Power Factor (kVA = kW)

PremiumTower ™ provides unity power factor which avoids the need for system over size to support today's power factor corrected loads.

High Efficiency 96.6% (VFI)

With a best in class efficiency of 96.6% in double conversion mode (VFI), PremiumTower ™ provides the lowest Total Cost of Ownership.

High Battery Charging current

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

Outstanding Overload Capability

With a 124% continuous operation in overload condition, mission critical applications can be safe on the event of unexpected load demands.

Ultra-Safe Eco mode

With a 99.4% efficiency in Eco mode operation and an ultra fast reaction time of <1.9 ms, Ultra-Safe Eco mode enables an excellent trade-off between power quality and energy efficiency.

Exceptional Short Circuit Capability

With a Short Circuit Capability of 3 times nominal current (3 x In), PremiumTower \mathbb{M} is able to clear output circuit protection in milliseconds.

Flexibility and Cost of Ownership

Internal Isolation Transformer

If galvanic isolation, voltage step-up or voltage stepdown is required, PremiumTower ™ can integrate the transformer within the same UPS increasing the flexibility on system development.

Minimized Footprint

With only 0.29 m2 for 10 /20 kW and 0.44 m2 for 30/40/60 kW, PremiumTower ™ optimizes valuable floor space, eliminates the cost of the battery cabinet, and simplify the installation.

Ease of Service

Direct access to components and plug-and-play internal modules minimize mean time to repair (MTTR) and simplifies routine maintenance.

30 to 50 Flexible Battery Blocks

Internal Batteries from 10kW to 60kW

Internal batteries are possible for the whole product range. Up to 150 battery blocks can be fitted in the PremiumTower ™, reducing the total footprint and optimizing costs.

Flexible Battery Range

60

With a wide and flexible battery range of 30 to 50 blocks, costs and autonomy time are optimized.

Tower D Tower E 520 mm 800 mm 350 mm 800 mm 320 mm kVA/kW kVA/kW Battery Battery 10 80 20 80 30 30 150 40 40 150

60

150

Maximum Reliability and Availability

Swiss Quality

Developed and manufactured in Switzerland, PremiumTower ™ provides the highest standards of quality in components and manufacturing processes approved by the Swiss made label.

Distributed Active-Redundant Parallel Architecture (DARA)

PremiumTower ™ implements Centiel's DARA parallel architecture with unlimited number of parallel units to add redundancy and scalability to the system.

Class Leading Availability

The combination of Swiss Quality and the lowest MTTR gives PremiumTower class leading availability.

Communication Features

RS232

Generator Operation

Output General Alarm Dry contact

2x Programmable Input Dry contacts

Temperature probe for external batteries

5x Programmable Output Dry contacts - optional

SNMP, ModBus, Modbus over IP Optional

kVA = kV

Unity Power Factor

High Reliability by Design

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

Dual Input feed

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



L Technical Datasheet

MODEL	UPS-PT010-I080-D0	UPS-PT020-I080-D0	UPS-PT030-E-D0 UPS-PT030-I150-E0	UPS-PT040-E-D0 UPS-PT040-I150-E0	UPS-PT060-E-D0 UPS-PT060-I150-E0	
GENERAL DATA						
Product name	PremiumTower™ UPS					
Topology/Technology	Online double conversion					
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 nonlinear 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 ±6 Hz (selectable)					
BATTERY		-)				
Rated Voltage	360-480 Vdc (the number of batteries can be selected)					
Internal Batteries (7/9Ah)	E External 1080: 80	E External 1080: 80	E External I150: 150	E External I150: 150	E External I150: 150	
Туре	Lead-Acid/NiCad			E Externarriso. 150	E Externarriso. 150	
Blocks [LA]/Cells[NicAd]	Flexible: 3050					
	Std 6 Option 10 / 20 / 30 / 40					
Charger (Amp)		7 50 7 40				
INVERTER						
	3Ph+N+PE					
Output Wiring Nominal Power [kVA]	10	20	30	40	60	
	10	20	30	40	60	
Nominal Power [kW]	380/400/415 Vac±1%	20	50	40	00	
Voltage						
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 124% unlimited; ≥ 126% for 10 min; ≥150% for 1 min Bypass Bypass 135% for long term; <1000% for 100ms					
Short circuit capability	3 x IN					
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 1,070 × 350 × 800 E0 1,320 × 520 × 800					
Weight [Kg] withouth batteries	D 80 E 105					
Colour / Protection Level	TBA / IP20					
Certifications	EN/IEC 62040-1 EN/II	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. Option 6 x Dry Output contacts, 4 x Dry Input contacts, Bluetooth, SNMP Slot					





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NZ Distributor:

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