



PremiumTower MS

Medical Special Three-phase UPS 80-250 KW

Maximized Flexibility

Matching battery cabinets

For applications that require an extended runtime, matching battery cabinets are available.

Battery compatibility

PremiumTower MS is compatible with various battery technologies and other types of energy accumulators including:

- Lead acid
- Lithium
- Gel
- Flywheels
- NiCd

Dual or single input feed

PremiumTower MS is available with the option of two independent AC sources to further increase the power availability of the installation.

Flexible battery blocks

The flexibility in the number of battery blocks (30 to 50) eliminates the need to oversize the batteries and allows system designers to optimize cost versus autonomy time.

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

Against the wall positioning

Ease of service with front access only

5 times higher charging current than typical standalone UPS

Power density Up to

415KW/m²





Scalable and robust design for medical imaging power protection

A clean, continuous power supply is critical to ensure the availability of Magnetic Resonance Imaging (MRI), Computed Tomography scanners (CT), and other Medical Imaging equipment. **PremiumTower MS** is a Swiss made three-phase, online double-conversion Uninterruptible Power Supply designed to protect Medical Imaging applications.

From 80 to 250 kW, **PremiumTower MS** offers scalability of up to 7.5 MW with front access serviceability and zero clearance. **PremiumTower MS** delivers the highest quality power protection for MRI, X-Ray, CT, Ultrasound, and imaging equipment where power performance, reduced footprint, and flexibility are essential.

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 a typical standalone, **PremiumTower MS** reduces the total system cost by eliminating the need for external battery chargers.

High Inrush Current support

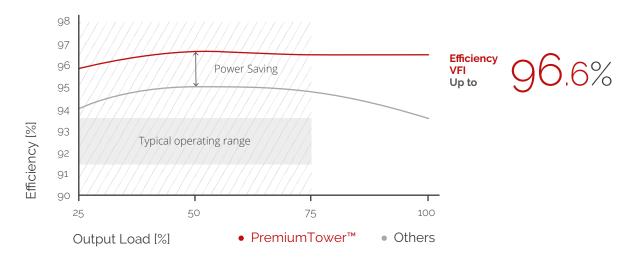
PremiumTower MS is designed to support the high inrush currents (pulses) required by Medical scanners and imaging equipment.

Line impedance

The image quality of Medical imaging scanners relies upon an electrical supply with a low impedance as provided by **PremiumTower MS**.

Lowest Total Cost of Ownership

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



High efficiencies in VFI and ECO mode

PremiumTower MS provides optimised 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.

Against the wall and Minimized footprint

From 0.36 m2 (for 80 - 120 kW) to 0.6 m2 (for 160 - 250 kW), **PremiumTower MS** optimises valuable floor space, eliminates the cost of the battery cabinet, and simplifies the installation.

Easy to service

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

Front access

Front access serviceability enables restricted space installations and removes the need for movement and relocation of the UPS during maintenance.

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

Remote monitoring allows for close control of the UPS parameters in real-time, reducing the risk of downtime and allowing for preventative maintenance.

Communication Features

Compensated battery

charging Temperature probe

SNMP, Modbus, ModBus over IP Slide-in adaptors

Simplified service

RS232 and Bluetooth app

Remote monitoring

Graphical display

Generator operation mode

Auxiliary contacts

Output general alarms

Dry contacts

Programmable input and output





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Medical Special



		Model	UPS-PT080- E40-F0-MS	UPS-PT100- E40-F0-MS	UPS-PT120- E40-F0-MS	UPS-PT160- E40-H0-MS	UPS-PT200- E40-H0-MS	UPS-PT250- E40-H0-MS
General Data		Product name	PremiumTower	MS UPS				
Gen		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 ±2/4% (selectable)					
		Rated Voltage	360-480 Vdc (the number of batteries can be selected)					
	Battery	Batteries (12V)	Flexible from 30 to 50					
		Туре	Lead-Acid/NiCad/Lithium					
		Blocks [LA]/Cells[NicAd]	Flexible: 3050					
		Charger (Amp)	64	80	96	120	120	120
Output	Inverter	Output Wiring	3Ph+N+PE					
		Nominal Power [kVA]	80	100	120	160	200	250
		Nominal Power [kW]	80	100	120	160	200	250
		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%					
		MRI load support	300A 10ms	375A 10ms	450A 10ms	780A 10ms	780A 10ms	780A 10ms
		CT scanner load support	120kW (60 seg)	150kW (60 seg)	180kW (60 seg)	375kW (60 seg)	375kW (60 seg)	375kW (60 seg)
		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 cor	ndensing)				
		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]	F0: 1990 x 600 x 600 H0: 1990 x 900 x 682					
		Colour / Protection Level	RAL 7024 (Graphite grey) / IP20					
		Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; RoHS					
		Communications	1 x RS232, 2 x Dry In, 1 x Dry Out, 2x Expansion slots. 6 x Dry Output contacts, 4 x Dry Input contacts, Bluetooth, SNMP Slot					

