

Robust
and high-
performance
emergency
power
solutions



centiel
continuous power availability

PremiumTower CPSS

Standalone three-phase UPS IEC
10 kW to 7.5 MW

PremiumTower CPSS

Your partner for robust standby power solutions



Centiel's commitment to excellence in power protection extends to the core of vital safety and emergency response systems. We understand that every second counts when it comes to safety and emergency response. That's why our centralized emergency power systems are designed to meet the highest industry standards, including the globally recognized EN 50171.

Our mission is clear: to provide you with uninterrupted, reliable power for essential life safety systems. From emergency lighting to automatic fire detection, fire suppression systems, smoke removal mechanisms, carbon monoxide detectors, signaling devices, and special protection for high-risk areas, we've got you covered.

With Centiel, you're not just investing in power solutions, you're investing in peace of mind, safety, and reliability. Discover more about PremiumTower CPSS and how Centiel's emergency power solutions can strengthen your security and emergency system

What is it that makes a UPS a CPSS?

The EN 50171 standard applies to systems permanently connected to AC supply voltages not exceeding 1000 V and using batteries as an alternative power source. Technical criteria required to classify a UPS as a CPSS:

Batteries

Batteries used in CPSS electric rescuers must have an expected life of at least 10-12 years.

Charging times

The chargers used must recharge the batteries within 12 hours, starting from a low battery condition.

Overload

The inverters used in the CPSS must be able to withstand a continuous 120% overload.

Housing resistance

The housing of the CPSS must have excellent mechanical strength.

Product highlights

- | **EN 50171 compliance**
- | **Dual input**
- | **High charge current**
- | **Reverse battery protection**
- | **Continuous 120% overload capacity**
- | **500% more powerful battery charger**
- | **High power density (up to 415 kW/m²)**
- | **A variety of matching battery cabinets are available**
- | **Internal batteries from 10 kW to 60 kW**
- | **Ease of service**





PremiumTower CPSS

The power to excel in reliability and performance

Designed to excel in every aspect of critical safety and emergency situations, the PremiumTower CPSS delivers unparalleled performance and peace of mind. Explore its exceptional features:

Unity Power Factor (kVA = kW)

PremiumTower CPSS provides a unity power factor that eliminates the need to oversize the system to support today's power factor corrected loads.

High Battery Charging Current

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

High Efficiency 96.6% (VFI)

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

Dual Input Feed

The PremiumTower CPSS is powered by two independent AC sources to further increase the availability of the installation.

Outstanding Overload Capability

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

Ultra-Safe Eco Mode

With a 99.4 % efficiency in eco mode operation and an ultrafast 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 three times the nominal current ($3 \times I_n$), PremiumTower CPSS is able to clear output circuit protection in milliseconds.

High reliability by design

Three independent power converters increase system reliability and ensure power continuity in the event of a power component failure.

Applications

Designed to ensure an uninterrupted power supply during power outages, our products are not only suitable for emergency lighting needs but also for powering other vital safety elements.

Main applications:

| Emergency Lighting

| Fire Detection Systems

| Alarm Systems

| Smoke detection

| Signaling safety devices,
and more.



Technical Datasheet - From 10kVA/kW to 30kVA/Kw



		Model	UPS-PT010-1080-Do	UPS-PT020-1080-Do	UPS-PT030-E-Do	UPS-PT040-E-Do	UPS-PT060-E-Do
			UPS-PT030-I160-Eo	UPS-PT040-I160-Eo	UPS-PT060-I160-Eo		
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 ±2/4% (selectable)				
	Battery	Rated Voltage	360-480 Vdc (the number of batteries can be selected)				
		Internal Batteries (79Ah)	I 080:80	I 080:80	E External I 160:160	E External I 160:160	E External I 160:160
		Type	Lead-Acid/NiCad/Lithium				
		Blocks [LA]/Cells[NicAd]	Flexible: 30...50				
		Charger (Amp)	20	20	40	40	40
Output	Inverter	Output Wiring	3Ph+N+PE				
		Nominal Power [kVA]	10	20	30	40	60
		Nominal Power [kW]	10	20	30	40	60
		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 ≥ 120% for 10 min; ≥150% for 1 min 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: 1075 x 350 x 850		E0: 1725 x 520 x 850		
		Weight [Kg] without batteries	D 80		E 105		
		Colour / Protection Level	RAL 9017 (traffic black) / IP20				
		Certifications	EN 50171; 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				

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



		Model	UPS-PT080-E30-F0	UPS-PT100-E30-F0	UPS-PT120-E30-F0	UPS-PT160-E30-G0	UPS-PT200-E30-H0	
			UPS-PT080-E40-F0	UPS-PT100-E40-F0	UPS-PT120-E40-G0	UPS-PT160-E40-G0	UPS-PT200-E40-H0	UPS-PT250-E40-H0
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 ±2/4% (selectable)					
	Battery	Rated Voltage	360-480 Vdc (the number of batteries can be selected)					
		Type	Lead Acid/N Cad/Lithium					
		Blocks [LA]/Cells [NicAd]	Flexible: 30...50 E30 Minimun 30 blocks (flexible from 30 to 50)/ E40 Minimun 40 Bloks (flexible from 40 to 50)					
		Charger (Amp)	TBA					
Output	Inverter	Output Wiring	3Ph+N+PE					
		Nominal Power [kVA]	80	100	120	200	160	250
		Nominal Power [kW]	80	100	120	200	160	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%					
		Overload Capacity	Inverter: 124% continuos ≥ 125% for 10 min; ≥ 150% for 1 min Bypass: 135% for long term; < 1000% for 100 ms					
		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]	F0: 1985 x 600 x 600		G0: 1985 x 730 x 970		H0: 1985 x 850 x 600	
		Weight [Kg] withouth batteries	-					
		Colour / Protection Level	TBA / IP20					
		Certifications	EN50171; 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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