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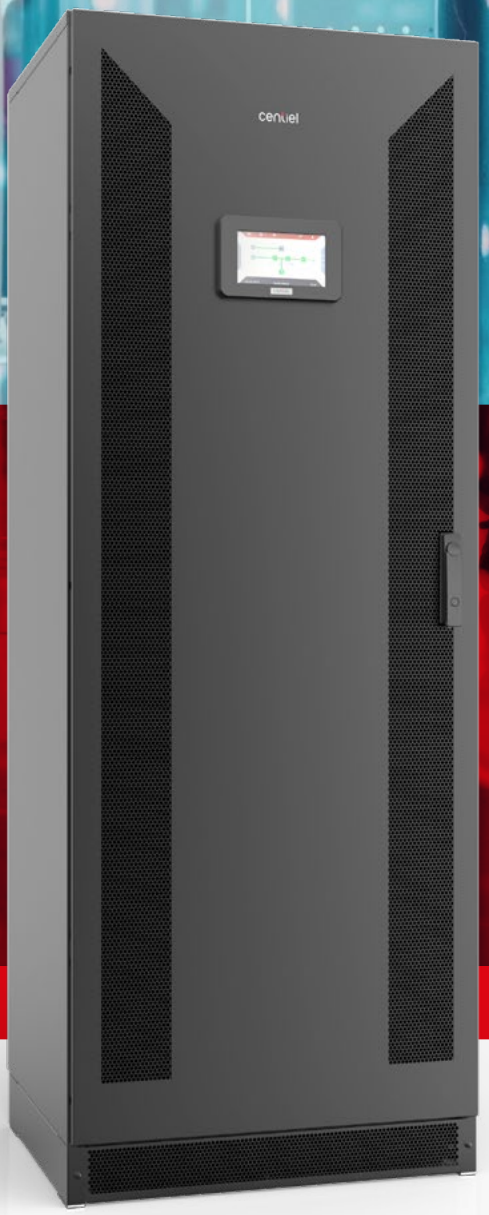
Robust and high-performance emergency power solutions



SWISS MADE

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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 high industry standards, including the globally recognized EN 50171.

Our mission is clear: to provide you with continuous, 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**
- **High battery charging current**
- **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 for critical safety and emergency applications, the PremiumTower CPSS delivers reliable performance. Explore its key 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)
Efficiency of 96.6% in double-conversion (VFI) mode can help reduce energy losses and support a lower 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 efficiency of up to 99.4% in ECO mode and an ultrafast response time of <1.9 ms, Ultra-Safe ECO mode supports both power quality and energy efficiency.

High Short-Circuit Capability
With a short-circuit capability of up to three times the nominal current (3 × In), PremiumTower CPSS enables fast operation of downstream protective devices.

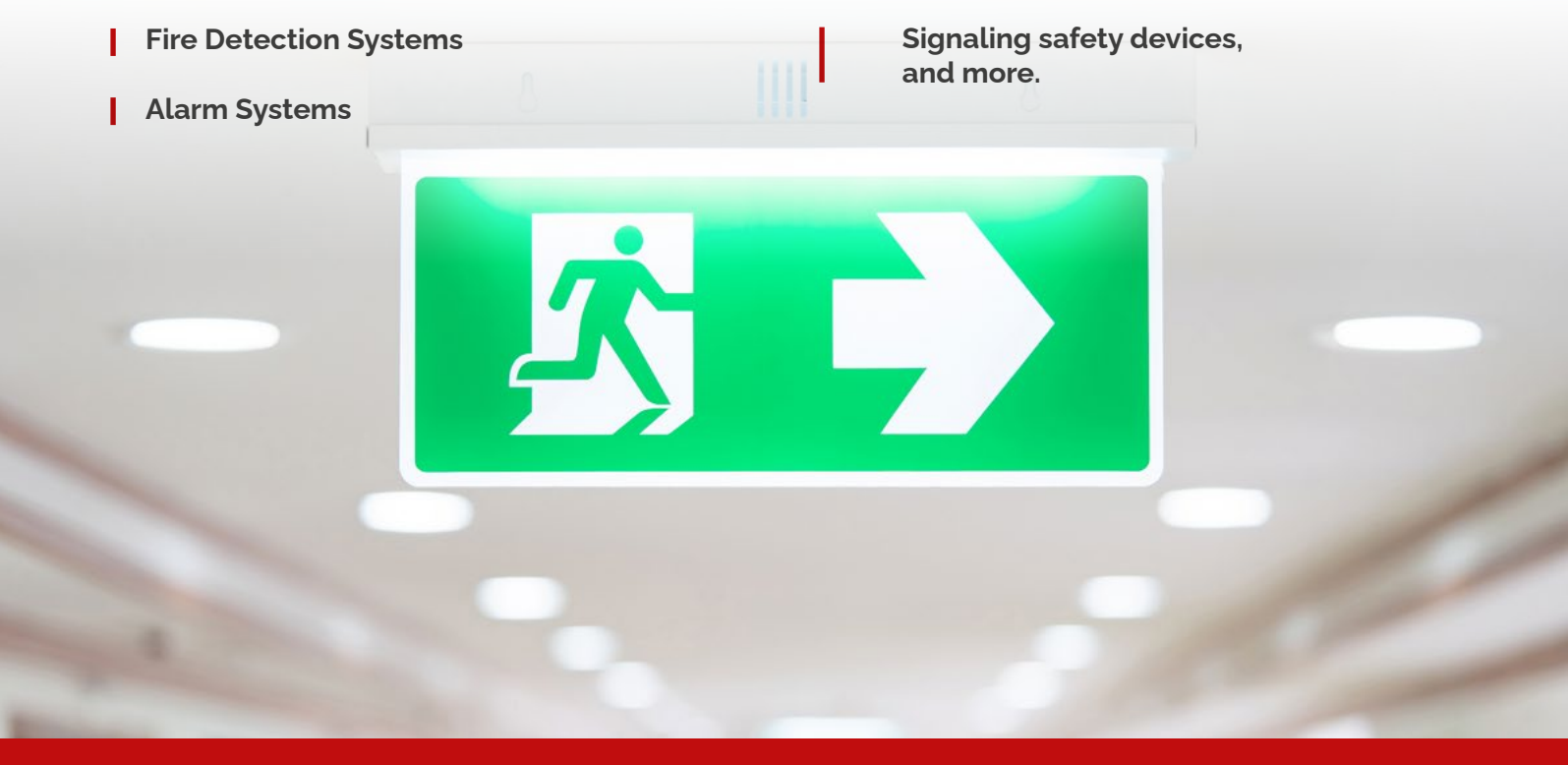
High reliability by design
Three independent power converters increase system reliability and ensure power continuity in the event of a power component failure.

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-D0	UPS-PT020-1080-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				
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/NiCd/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-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					
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/NiCd/Lithium					
		Blocks [LA]/Cells [NicAd]	**Flexible: 30...50** **E30** Minimun 30 blocks (flexible from 30 to 50)/ **E40** Minimum 40 blocks (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] without 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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