centiel

continuous power availability

PremiumTower™

Class leading availibility
Three-phase UPS 10-250 kW

SWISS
M A D E

www.centiel.com
www.centiel.co.uk

PremiumTower™

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

From **10 to 250kW**, PremiumTower™ provides the best solution for small and medium data center, 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 minimising the footprint utilisation, 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.

Proven Reliability
30 years of experience
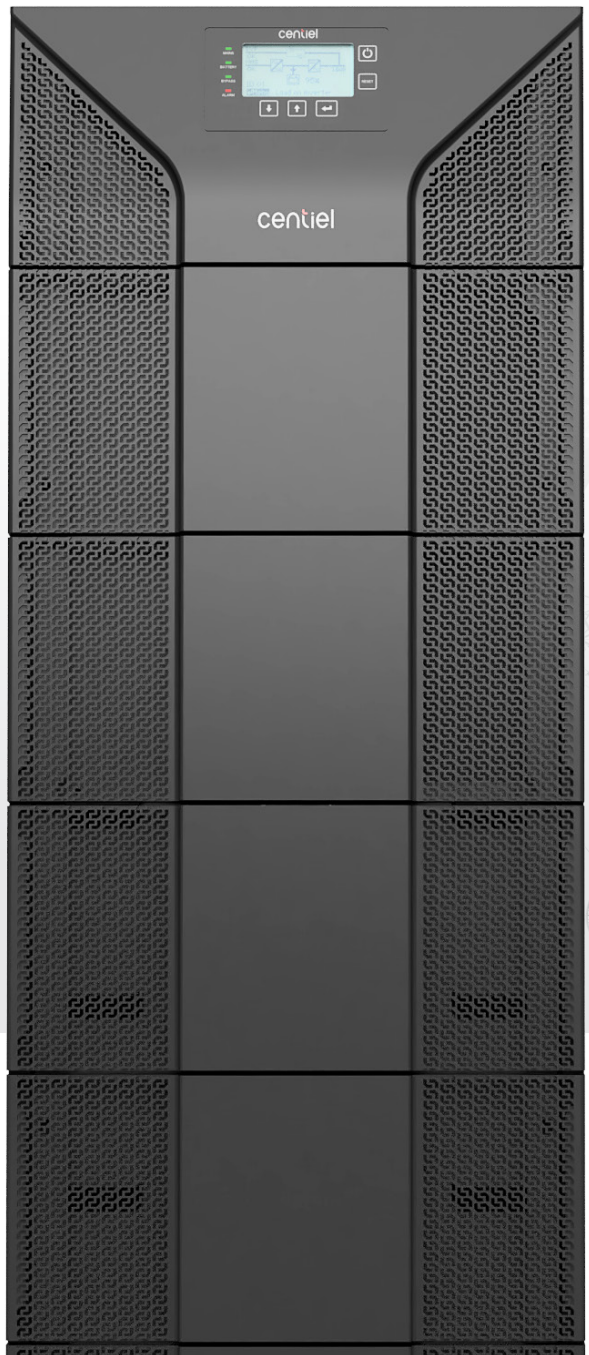
Advanced Performance
Cost Savings

Unbeatable Efficiency 96.6%
Lowest Operating Cost

Unity Power Factor
kVA = kW

Outstanding Overload Capability

Ease of Service
Swappable Plug
& Play Internal Components

Flexibility
Wide Range of Options

+96.6% Efficiency
VFI

Advanced Performance

Unity Power Factor (kVA = kW)

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

High Battery Charging Current

With the ability to provide up to 5 times more charging current than typical standalone, PremiumTower™ reduces the total system cost 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™ provides the lowest Total Cost of Ownership.

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 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 3 times nominal current (3 x In), PremiumTower™ 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 step-down is required, PremiumTower™ can integrate the transformer within the same UPS increasing the flexibility on system development.

Minimised Footprint

With only 0.28 m² for 10 /20 kW and 0.41 m² for 30/40/60 kW, PremiumTower™ optimises valuable floor space, eliminates the cost of the battery cabinet, and simplifies the installation.

Ease of Service

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

Matching Battery Cabinets (MBC)

Offering the flexibility to connect different types of batteries while maintaining the same look. PremiumTower™ offers a variety of MBC.

Internal Batteries from 10kW to 60kW

Internal batteries are possible for the whole product range. Up to 160 battery blocks can be fitted in the PremiumTower™, reducing the total footprint and optimising costs.

30 to 50 Flexible Battery Blocks

Maximum Reliability and Availability

Swiss Quality

Developed and manufactured in Switzerland, PremiumTower™ provides the highest standard 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 an unlimited number of parallel units to add redundancy and scalability to the system.

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.

Communication Features

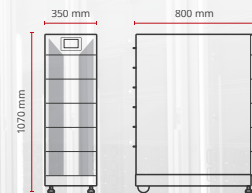|	
Output General Alarm Relay	RS232 Port
5x Programmable Output Relays	On Generator Operation
SNMP, ModBus, Modbus over IP	2x Programmable Input Contacts
	Temperature sensor for external batteries

PremiumTower™ 3:1

From 10kW to 30kW

Tower D

kW	Battery
10	80
20	80
30	80

Modell	PT010-31-I080-D0	PT020-31-I080-D0	PT030-31-I080-D0
Max Power [kVA/kW]	10/10	20/20	30/25
Footprint	0.28 m²	0.28 m²	0.28 m²
Battery blocks range	20 to 50	30 to 50	30 to 50

PremiumTower™ 3:3

**From 10kW
to 250kW**

Tower E

Tower D
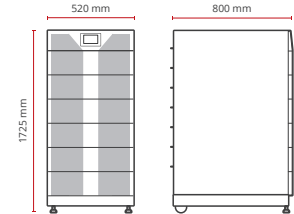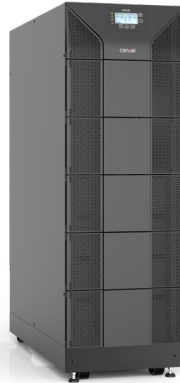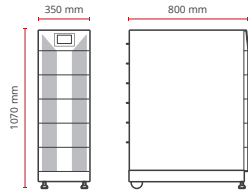
kW	Battery
10	80
20	80
30	-
40	-
60	-

kW	Battery
-	-
-	-
30	160
40	160
60	160

Model	PT010-I080-D0	PT020-I080-D0	PT030-E-D0 PT030-I160-E0	PT040-E-D0 PT040-I160-E0	PT060-E-D0 PT060-I160-E0
Max Power [kVA/kW]	10/10	20/20	30/30	40/40	60/60
Footprint	**D** 0.28 m²	**D** 0.28 m²	**D** 0.28 m² **E** 0.41 m²	**D** 0.28 m² **E** 0.41 m²	**D** 0.28 m² **E** 0.41 m²
Battery blocks range	20 to 50	30 to 50	30 to 50	30 to 50	30 to 50

Tower F **Tower G** **Tower H**
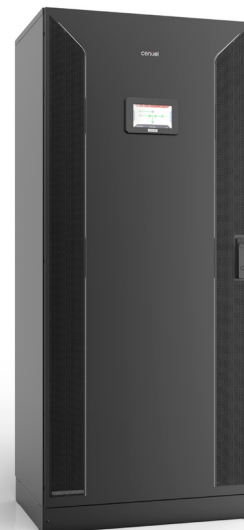
Model	UPS-PT080-E30-F0 UPS-PT080-E40-F0	UPS-PT100-E30-F0 UPS-PT100-E40-F0	UPS-PT120-E30-F0 UPS-PT120-E40-G0	UPS-PT160-E30-G0 UPS-PT160-E40-G0	UPS-PT200-E30-H0 UPS-PT200-E40-H0	UPS-PT250-E40-H0
Max Power [kVA/kW]	80/80	100/100	120/120	160/160	200/200	250/250
Footprint	**F** 0.36 m²	**F** 0.36 m²	**F** 0.36 m² **G** 0.43 m²	**G** 0.43 m²	**H** 0.51 m²	**H** 0.51 m²
Battery blocks range	E30 30 to 50 / E40 40 to 50					

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