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## Empowering a resilient, sustainable future



**PremiumTower™ S2** is Centiel's next-generation, eco-responsible, three-phase UPS solution. It is designed to help organisations protect their critical loads while reducing their carbon footprint. With the PremiumTower S2, you demonstrate your commitment to cutting-edge resilience and planetary well-being.

## Advanced performance

#### High reliability by design

Three independent power converters increase the system's reliability, providing power continuity even in the event of power component failure.

#### Market leading charging current

With the ability to provide up to 5 times more charging current than t a typical standalone unit, PremiumTower S2 reduces the total system cost by eliminating the need for external battery chargers.

#### Short circuit capability

With a short circuit capability of 3 times nominal current  $(3 \times In)$ , PremiumTower S2 is able to clear output circuit protection in milliseconds.

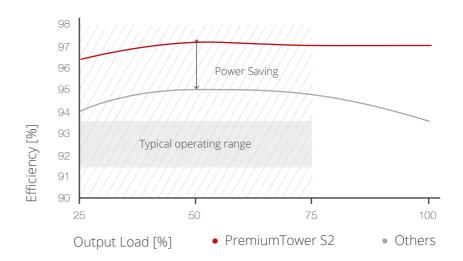
### **Class-Leading Efficiency**

With an ultra-efficient architecture achieving up to 97.1% efficiency in double conversion, PremiumTower S2 pushes the boundaries of eco-sustainability.

## Lowest Total Cost of Ownership

Efficiency VFI up to

97.1%



#### Zero waste for a greener planet

PremiumTower S2 market leading ultra-efficient architecture of up to 97.1% efficiency in double conversion, and no replaceable components for 15+ years reduce the energy consumption, lowering heat dissipation and cutting operating expenses. As a result, fewer resources are consumed, which in turn reduces your environmental impact.



## Maximized flexibility



The flexibility in the number of battery blocks (18 to 50), eliminates the need to oversize the batteries and allows system designers to optimize cost versus autonomy time.

# Integrated autonomies and matching battery cabinets

Up to 240 battery blocks can be fitted in the PremiumTower S2 10 to 80 kW, reducing the total footprint and optimizing costs. For higher ratings and extended runtime, matching battery cabinets are available.

#### **Dual or single input feed**

PremiumTower S2 can be supplied with two independent AC sources to further increase the power availability of the installation.

**Compatible with different battery technologies** Lead acid, Gel, NiCd, Flywheels, Lithium and other types of energy accumulators can be used with PremiumTower S2.

18 to 50 Flexible battery blocks

Industry-leading efficiency: 97.1%

Increased nominal rating (kW = KVA)

15+ years life on replaceable components

Smart-predictive fans

Backfeed protection (standard)

500% higher charging current than typical standalone UPS

Up to 80kW with internal batteries

Power density up to

181 kW/mq

80 kV

O O min

 $0.44 \, \text{m}^2$ 



## Non-intrusive maintenance

Minimized maintenance and repair time contribute to maintaining the systems' high availability.

#### **Smart-predictive fans**

The PremiumTower S2 features a closed-loop control system and actively monitors fan usage and detects signs of degradation. It alerts users at exactly the right time to replace components. This ensures ongoing reliability and eliminates unnecessary maintenance costs.

#### **User-friendly display**

The display and LED interface simplifying user interaction give immediate visibility to the status of the UPS.

#### 15+ Years

Designed to deliver a service life of 15+ years for components. Beyond reliability, this longevity actively reduces waste and costs from parts replacement.

#### Remote monitoring

Graphical display

#### Generator operation mode

Auxiliary contacts

### 5 Dry Contacts and 5 Digital Inputs

# Standard programmable

input and output

Dry contacts

Compensated battery charging

Temperature probe

SNMP, Modbus, ModBus over IP

Slide-in adaptors

Simplified service

USB and Bluetooth app

## Tangible sustainability PremiumTower S2 represents a commitment to preserving natural resources, cutting operational costs, and creating a positive environmental impact. It is an investment in a future where businesses thrive while reducing their ecological footprint.

### **Energy efficiency**

PremiumTower S2 is designed with energy efficiency in mind, using the latest technology to reduce energy consumption and minimise losses.

97.1% (VFI) efficiency

#### **Zero** waste

PremiumTower S2 is manufactured using eco-friendly materials, ensuring that our products have minimal impact on the environment.

 $15^+$  years of life on replaceable components

#### Net zero by design

Centiel is continuously committed to improving our sustainability practices, and we manufacture PremiumTower S2 using environmentally friendly processes to minimize our impact on the environment.

96% of the energy used for production testing is recycled and renewable

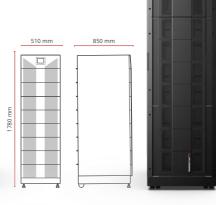
## Tower D1

# Tower Do

# Tower Eo







ootprint 0.2	29m²
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Footprint 0.29m<sup>2</sup>

Footprint 0.44m<sup>2</sup>

Model	kVA/kW	Int. Batt.	
UPS2-PT010-I080-D1	10	80	
UPS2-PT020-I080-D1	20	80	

Model	kVA/kW	Int. Batt.	Model	kVA/kW	Int. Batt.
UPS2-PT010-I120-D0	10	120	UPS2-PT010-I240-E0	10	240
UPS2-PT020-I120-D0	20	120	UPS2-PT020-I240-E0	20	240
UPS2-PT030-I120-D0	30	120	UPS2-PT030-I240-E0	30	240
UPS2-PT040-I120-D0	40	120	UPS2-PT040-I240-E0	40	240
UPS2-PT060-E-D0	60		UPS2-PT060-I240-E0	60	240
UPS2-PT080-E-D0	80		UPS2-PT080-I240-E0	80	240

PremiumTower™ S2	Cabinet Type			Internal batteries	Autonomy min
10kVA	D1	Do	Ео		
UPS2-PT010			n/a	Ext. Batt.	-
UPS2-PT010	eries	Max 80 batteries Max 120 batteries	Max 240 batteries	1 x 7	11
UPS2-PT010	batt			1 x 9	16
UPS2-PT010	× 80			2 x 7	28
UPS2-PT010	Ma			2 x 9	45
UPS2-PT010				3 x 7	52
UPS2-PT010				3 x 9	70
UPS2-PT010				5 x 7	91
UPS2-PT010				5 x 9	118
UPS2-PT010				6 x 9	153
20kVA	D1	Do	Ео		
UPS2-PT020			n/a	Ext. Batt.	-
UPS2-PT020	at-			1 x 9	6
UPS2-PT020	Max 80 bat- teries	Max 120 batteries			11
	Max 80 teries			2 x 7	
UPS2-PT020	토			2 x 9	16
UPS2-PT020				3 x 7	19
UPS2-PT020				3 x 9	28
UPS2-PT020				5 x 7	42
UPS2-PT020				5 x 9	56
UPS2-PT020				6 x 9	72

PremiumTower™ S2	Cabinet Type		Internal batteries	Autonomy min
30kVA	Do	Ео		
UPS2-PT030	S	n/a	Ext. Batt.	-
UPS2-PT030	tterie	St	2 x 7	6
UPS2-PT030	Max 120 batteries		2 x 9	9
UPS2-PT030	×12		3 x 7	12
UPS2-PT030	Ma	Max 240 batteries	3 x 9	16
UPS2-PT030		o ba	5 x 7	23
UPS2-PT030		× 24	6 x 7	29
UPS2-PT030		Σ	6 x 9	33
40kVA	Do	Ео		
UPS2-PT040		n/a	Ext. Batt.	-
UPS2-PT040	C S		2 x 9	5.5
UPS2-PT040	Max 120 batteries	S	3 x 7	7
UPS2-PT040	Ma	terie	3 x 9	11
UPS2-PT040		0 bat	5 x 7	15
UPS2-PT040		Max 240 batteries	6 x 7	20
UPS2-PT040		Ma	6 x 9	28
6okVA	Do	Ео		
UPS2-PT060		n/a	Ext. Batt.	-
UPS2-PT060		C s	3 x 9	6
UPS2-PT060		Max 240 batteries	4 x 9	10
UPS2-PT060			6 x 9	16
8okVA	Do	Ео		
UPS2-PT080		n/a	Ext. Batt.	-
UPS2-PT080		Max 240 batteries	5 x 9	6
UPS2-PT080		Max 240 batteries	6 x 9	8

		Model	UPS2-PT010- 1080-D1 UPS2-PT010- 1120-D0 UPS2-PT010- 1240-E0	UPS2-PT020- 1080-D1 UPS2-PT020- 1120-D0 UPS2-PT020- 1240-E0	UPS2-PT030- 1120-D0 UPS2-PT030- 1240-E0	UPS2-PT040- 1120-D0 UPS2-PT040- 1240-E0	UPS2-PT060- E-D0 UPS2-PT060- I240-E0	UPS2-PT080- E-D0 UPS2-PT080- I240-E0		
ata		Product name	PremiumTower™	PremiumTower™S2 UPS						
General Data		Topology/Technology	Online double conversion							
Gene		Max Power [kVA/kW]	10	20	30	40	60	80		
		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	Mains	Input Frequency	30-70 Hz							
		Total Harmonic Distortion	THDi <= 1% for n	THDi <= 1% for nominal load						
		Input Power Factor	0,99	0,99						
		Input Wiring	3Ph+N+PE							
		Rated Voltage	380/400/415 Vac							
	Bypass	Change over tolerance	± 30 ± 10% (Vol	tage) (According to	VFI-SS-111)					
		Input Frequency	50/60 ± 2/4% (selectable)							
		Rated Voltage 216-600 Vdc (the number of batteries can be selected)								
		Туре	ype Lead-Acid / NiCad / Lithium / Zink / Salt / others							
	Battery	Internal batteries (7/9Ah)	1080: 80   1120: 120   1240: 240   1120: 120   1240: 240   E: External   1240: 240							
		Blocks[VRLA]	18-50							
		Charger (Amp)	15	25	35	35	60	60		
		Output Wiring	3Ph+N+PE							
		Nominal Power [kW]	10	20	30	40	60	80		
		Voltage	380/400/415 Vac	± 1%						
		Frequency	Tracking the bypass input (Online Mode); 50/60 Hz ± 0.1% (Battery Mode)							
Ħ	Inverter	Waveform	Sine wave (THDv < 1%)							
Output	ilivertei	Output Power Factor	1							
		Efficiency	97.1 %							
		Overload Capacity	<b>Inverter:</b> 125% for 10 min, 150% for 60 sec <b>Bypass:</b> 135% for long term; <1000% for 100ms							
		Short circuit capability	Up to 3xIn							
	Bypass	Efficiency	99,4 %							
ا پ		Operating Temperature	0-40°C							
mer		Storage Temperature	-40-70°C							
Environment		Relative Humidity	0%-95% (No cond	densing)						
Ē		Maximum Operating Altitude								
		Dimensions (H x W x D) mm	<b>D1</b> 842 x 349 x 84 <b>D0</b> 1,077 x 349 x <b>E0</b> 1,780 x 510 x	840	<b>D0</b> 1,077 x 349 x <b>E0</b> 1,780 x 510 x		<b>D0</b> 1,077 x 349 x <b>E0</b> 1,780 x 510 x			
Others		Weight without batteries[kg]	D1 52   D0 56	E0 120	D0 60   E0 120		D0 83 E0 144	D0 87 E0 144		
ਰ		Colour / protection level	RAL 9017 (traffic black) / IP20							
		Certifications	EN/IEC 62040-1   EN/IEC 62040-2   EN/IEC 62040-3   CE   UKCA   EAC   RoHS							
		Communications	RS485, USB, Dry	contacts, Ethernet,	, Bluetooth					

