

Resilient & Sustainable Power Protection



centiel
continuous power availability

PremiumTower™ S2 - 208V

Empowering a resilient, sustainable future
Three-phase UPS 5-40kW





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 a typical standalone unit, PremiumTower S2 reduces the total system cost by eliminating the need for external battery chargers.

Short circuit capability

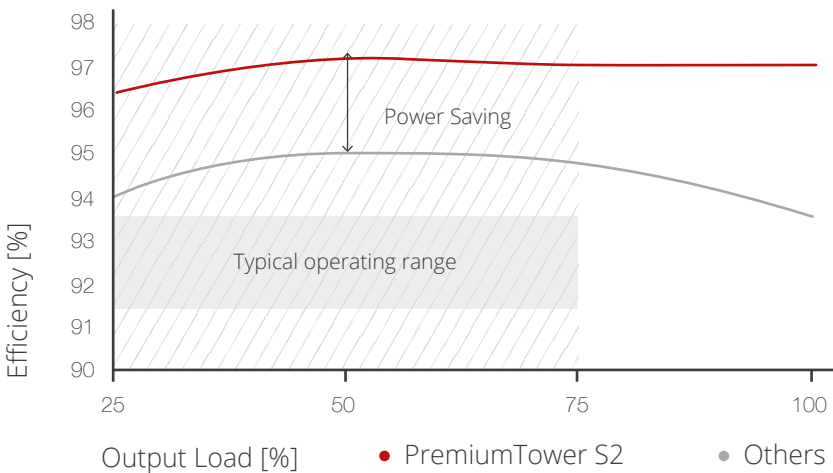
With a short circuit capability of 3 times nominal current ($3 \times I_n$), PremiumTower S2 is able to clear output circuit protection in milliseconds.

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.

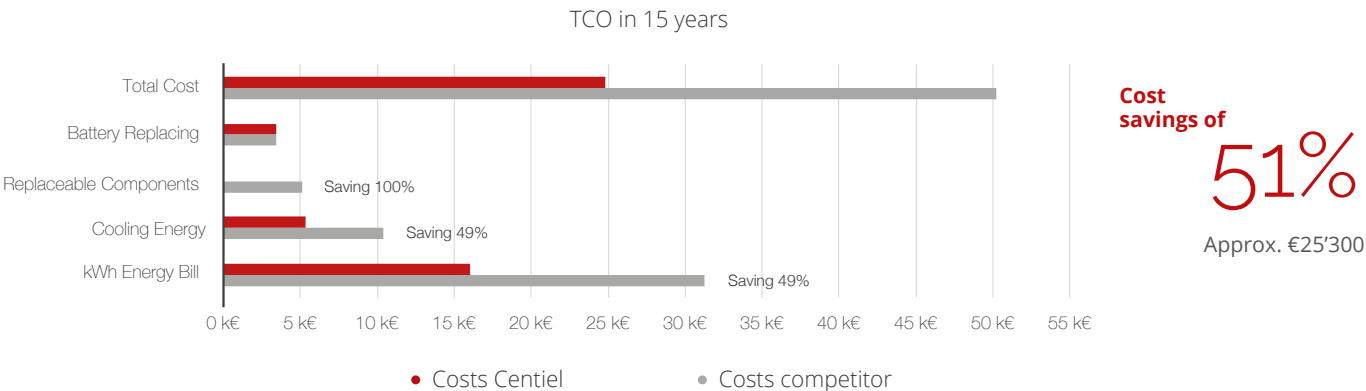
Lowest Total Cost of Ownership

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.



Based on 20kW 10min autonomy. Cooling energy based on EER=3
0.219 €/kWh Euro area average
Source EUROSTAT

Maximized Flexibility



Flexible battery blocks

The flexibility in the number of battery blocks (14 to 28), 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 5 to 40kW, 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.

14^{to} 28 Flexible battery blocks
LITHIUM READY

| 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 40kW with internal batteries



Power density up to

90 kW/mq

40 kVA

15 min

0.44 m²



Non-intrusive maintenance

Minimized maintenance and repair time contribute to keeping 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

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.

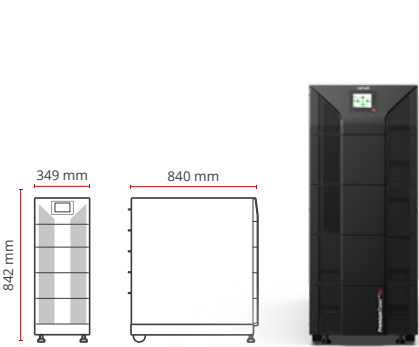
15+ years of life on replaceable components

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



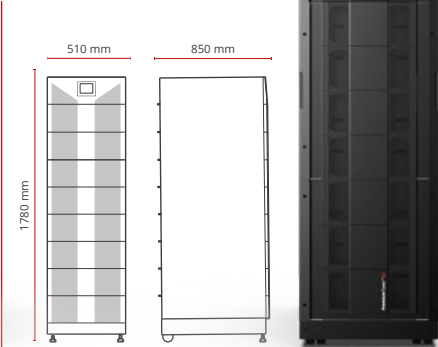
Footprint 0.29m²

Tower Do



Footprint 0.29m²

Tower Eo



Footprint 0.44m²

Model	kVA/kW	Int. Batt.
UPS2-PT005-I080-2V-D1	5	80
UPS2-PT010-I080-2V-D1	10	80

Model	kVA/kW	Int. Batt.
UPS2-PT005-I120-2V-D0	5	120
UPS2-PT010-I120-2V-D0	10	120
UPS2-PT015-I120-2V-D0	15	120
UPS2-PT020-I120-2V-D0	20	120
UPS2-PT030-E-2V-D0	30	
UPS2-PT040-E-2V-D0	40	

Model	kVA/kW	Int. Batt.
UPS2-PT005-I240-2V-E0	5	240
UPS2-PT010-I240-2V-E0	10	240
UPS2-PT015-I240-2V-E0	15	240
UPS2-PT020-I240-2V-E0	20	240
UPS2-PT030-I240-2V-E0	30	240
UPS2-PT040-I240-2V-E0	40	240

PremiumTower™ S2 - 208V	Cabinet Type			Internal batteries	Autonomy min
	D1	Do	Eo		
5kVA	Max 80 batteries	Max 120 batteries	Max 240 batteries	n/a	Ext. Batt. -
				1 x 7	18
				1 x 9	22
				2 x 7	46
				2 x 9	54
				3 x 7	77
				3 x 9	90
				5 x 7	147
				5 x 9	169
				6 x 9	210
10kVA	Max 80 batteries	Max 120 batteries	Max 240 batteries	n/a	Ext. Batt. 0
				1 x 9	9
				2 x 7	18
				2 x 9	22
				3 x 7	31
				3 x 9	38
				5 x 7	60
				5 x 9	72
				6 x 9	91

PremiumTower™ S2 - 208V	Cabinet Type		Internal batteries	Autonomy min
	Do	Eo		
15kVA	Max 120 batteries	Max 240 batteries	n/a	Ext. Batt. -
			2 x 7	10
			2 x 9	13
			3 x 7	18
			3 x 9	22
			5 x 7	36
			6 x 7	41
			6 x 9	54
20kVA	Max 120 batteries	Max 240 batteries	n/a	Ext. Batt. 0
			2 x 9	9
			3 x 7	12
			3 x 9	16
			5 x 7	24
			6 x 7	31
			6 x 9	38
30kVA	Max 240 batteries	Max 240 batteries	n/a	Ext. Batt. 0
			3 x 9	9
			4 x 9	13
			6 x 9	22
40kVA	Max 240 batteries	Max 240 batteries	n/a	Ext. Batt. 0
			5 x 9	12
			6 x 9	15

Autonomy based @100%load PF 0.8
Each string consider 28 blocks

Technical Datasheet - From 5 to 40 kVA/kW



Model		UPS2-PT005- I080-2V-D1 UPS2-PT005- I120-2V-D0 UPS2-PT005- I240-2V-E0	UPS2-PT010- I080-2V-D1 UPS2-PT010- I120-2V-D0 UPS2-PT010- I240-2V-E0	UPS2-PT015- I120-2V-D0 UPS2-PT015- I240-2V-E0	UPS2-PT020- I120-2V-D0 UPS2-PT020- I240-2V-E0	UPS2-PT030-E- 2V-D0 UPS2-PT030- I240-2V-E0	UPS2-PT040-E- 2V-D0 UPS2-PT040- I240-2V-E0		
General Data		Product name						PremiumTower™S2 UPS 208V	
		Topology/Technology						Online double conversion	
		Max Power [kVA/kW]		5	10	15	20	30	40
Input	Mains	Input Wiring		3Ph+N+PE					
		Rated Voltage		200/208/220Vac					
		Voltage Range		For loads < 100% (-25%, +20%) / < 80% (-32.5%, +20%) <60% (-35%, +20%)					
		Input Frequency		30-70 Hz					
		Total Harmonic Distortion		THDi <= 1% for nominal load					
		Input Power Factor		0,99					
	Bypass	Input Wiring		3Ph+N+PE					
		Rated Voltage		200/208/220Vac					
		Change over tolerance		± 30... ± 10% (Voltage) (According to VFI-SS-111)					
		Input Frequency		50/60 ± 2/4% (selectable)					
	Battery	Rated Voltage		168-336 Vdc (the number of batteries can be selected)					
		Type		Lead-Acid / NiCad / Lithium / Zink / Salt / others...					
		Internal batteries (7/9Ah)		I080: 80 I120: 120 I240: 240		I120: 120 I240: 240		E: External I240: 240	
		Blocks[VRLA]		14-28					
		Charger (Amp)		15	25	35	35	60	60
Output	Inverter	Output Wiring		3Ph+N+PE					
		Nominal Power [kW]		5	10	15	20	30	40
		Voltage		200/208/220Vac ± 1%					
		Frequency		Tracking the bypass input (Online Mode); 50/60 Hz ± 0.1% (Battery Mode)					
		Waveform		Sine wave (THDv < 1%)					
		Output Power Factor		1					
		Efficiency		97.1 % (VFI: double conversion)					
		Overload Capacity		Inverter: 125% for 10 min, 150% for 60 sec Bypass: 135% for long term; <1000% for 100ms					
		Short circuit capability		Up to 3xIn					
	Bypass	Efficiency		99,4 %					
Environment	Operating Temperature		0-40°C						
	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						
Others	Dimensions (H x W x D) mm		D1 842 x 349 x 840 D0 1,077 x 349 x 840 E0 1,780 x 510 x 850		D0 1,077 x 349 x 840 E0 1,780 x 510 x 850		D0 1,077 x 349 x 913 E0 1,780 x 510 x 905		
	Weight without batteries[kg]		D1 52 D0 56 E0 120		D0 60 E0 120		D0 83 E0 144		D0 87 E0 144
	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						

The information in this document is subject to change without notice and should not be construed as a commitment by Centiel S.A.
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