CENTURION PRO SERIES

10–80kVA

3 PHASE

TRUE ONLINE
PREMIUM PROTECTION

Centurion Pro Three Phase UPS series provides powerful overall protection to your sensitive equipment. Accepting a wide input voltage range for harsh environments, it is the perfect solution for powering a wide range of devices such as servers, data centres, industrial processes, telecommunication and security systems.

This small footprint, high power density, double-conversion online UPS has an output power factor of 1.0. It features complete dual mains inputs ranging from 10kVA to 80kVA. It also includes Digital Signal Processing (DSP) technology and active input power factor correction design. This ensures a stable, superior output power quality.

Designed in collaboration with PowerShield's extensive service partner network to address the specific requirements of Oceania.

FEATURES

HIGH AVAILABILITY
- Accepts dual-mains inputs
- Generator compatible
- Optional N+X parallel redundancy

PROTECTION
- True online double-conversion
- Sophisticated 3-stage extendable charging design for optimized battery performance
- Emergency power off function (EPO)
- Back feed protection

EFFICIENCY
- DSP technology guarantees high performance
- Output power factor 1.0
- Active power factor correction on all phases
- ECO mode operation for energy saving
- Using the latest silicon carbide diodes

ACTIVE VOICE WARNING
Voice notifications alert users error codes

LCD DISPLAY
The Centurion Pro has an informative colour LCD Display with programmable features.

VERSATILITY
- Adjustable battery numbers
- 50Hz/60Hz frequency converter mode
- Adjustable output voltages
- Includes Intelligent Slot, USB and RS232 connections

BATTERY BANK EXTENSION OPTIONS
- The Centurion Pro provides the option to increase battery backup time by simply adding additional battery banks.
- PSCEPBB40, PSCEPBB80
- Up to 30% of the UPS rating for battery recharge
- External battery cabinets for 10-year design life batteries available on request

OPTIONS
- PSSNMPV4 – SNMP card (option to connect a PSEMD)
- PSEMD – Environmental Monitoring Device for temperature and humidity
- PSModbus – Modbus card
- PSAS400 – AS400 dry contact card
- PSCSSNMP – Cyber Secure SNMP
- Maintenance bypass switches high level protection surge filters

AUSTRALIAN DESIGNED POWER PROTECTION SOLUTIONS

Power Shield®

CENTURION PRO SERIES SELECTION GUIDE

MODEL		10K(L) DUAL	20K(L) DUAL	30K(L) DUAL	40K(L) DUAL	60KL DUAL	80KL DUAL
Model Number		PSCEP10K(L) 3/1 or 3/3	PSCEP20K(L) 3/1 or 3/3	PSCEP30K(L) 3/3	PSCEP40K(L) 3/3	PSCEP60KL 3/3	PSCEP80KL 3/3
Capacity		10kVA / 10kW	20kVA / 20kW	30kVA / 30kW	40kVA / 40kW	60kVA / 60kW	80kVA / 80kW
INPUT							
Voltage Range	Low Line Loss	110VAC(Ph-N) ± 3% at 50% Load; 176VAC(Ph-N) ± 3% at 100% Load					
	Low Line Comeback	Low Line Loss Voltage + 10V					
	High Line Loss	300VAC(L-N) ± 3% at 50% Load; 276VAC(L-N) ± 3% at 100% Load					
	High Line Comeback	High Line Loss Voltage − 10V					
Frequency Range		46Hz–54Hz @ 50Hz system 56Hz–64Hz @ 60Hz system					
Phase		3 Phase with Neutral					
Power Factor		≥0.99 at 100% Load					
OUTPUT							
Phase		3 Phase with Neutral					
Output voltage		360/380/400/415VAC (Ph-Ph)					
		220/230/240VAC (Ph-N)					
AC Voltage Regulation		± 1%					
Frequency Range (Synchronized Range)		46Hz–54 Hz @ 50Hz system; 56Hz–64 Hz @ 60Hz system					
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz					
Overload	AC mode	100%–110%: 60min; 110%–125%: 10min; 125%–150%:1min;>150% : immediately					
	Battery mode	100%–110%: 60min; 110%–125%: 10min; 125%–150%:1min;>150% : immediately					
Current Crest Ratio		3:1 MAX					
Harmonic Distortion		≤ 2 % @ 100% Linear Load; ≤ 5 % @ 100% Non-linear Load					
Transfer Time	Line ← → Battery	0ms					
	Inverter ← → Bypass	0 ms (When phase lock fails, <4ms interruption occurs from inverter to bypass)					
	Inverter ← → ECO	<10 ms					
Power Factor		0.9 leading to 0.9 lagging					
EFFICIENCY							
AC mode		95.5% at full load					
Battery Mode		94.5% at full load					
BATTERY							
Standard Model	Type	12V / 9Ah	12V / 9Ah	12V / 9Ah	12V / 9Ah	N/A	
	Numbers	(20+20)pcs	(20+20)pcs	(16+16)pcs x 2 strings			
	Recharge Time	9 hours recover to 90% capacity					
	Charging Current (max)	2.0 A ± 10% (Recommended) 1.0–12.0A (Adjustable)					
	Charging Voltage	+/−273 VDC ± 1%		+/−218 VDC ± 1%			
Long-run Model	Type	Depending on applications					
	Numbers	32–40 (adjustable as ±16, ±18, ±20)					
	Charging Current(max.)	1.0–12.0A ±10% (Adjustable)				2.0–24.0A ±10% (Adjustable)	
	Charging Voltage	+/- 13.65 VDC * N ± 1% (N = 16–20)					
PHYSICAL							
Standard Model	Dimension, D x W x H (mm)	790 x 300 x 1010		790 x 300 x 1010		N/A	
	Net Weight (kgs)	165	165	247	247		
Long-run Model	Dimension, D x W x H (mm)	790 x 300 x 1010		790 x 300 x 1010		790 x 360 x 1010	
	Net Weight (kgs)	65	65	87	87	112	117
ENVIRONMENT							
Operation Temperature		0–40°C (the battery life will decrease when > 25°C)					
Operation Relative Humidity		< 95% and non-condensing					
Operation Altitude		< 1000m*					
Acoustic Noise Level		< 55dB @ 1 Metre	< 58dB @ 1 Metre	< 65dB @ 1 Metre	< 70dB @ 1 Metre	< 70dB @ 1 Metre	< 75dB @ 1 Metre
MANAGEMENT							
Smart RS-232 or USB		Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux, Unix, and MAC					
Optional SNMP		Power management from SNMP manager and web browser					
STANDARDS							
Safety		IEC/EN62040-1-1, Performance IEC 62040-3					
EMC		EMC/EMI/RFI IEC 62040-2 Environmental IEC 62040-4					

*If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated 1% per 100m. 'L' refers to long range model with no internal batteries. Product specifications are subject to change without further notice.