

Centurion 3/3

10–30kVA



True Online Double Conversion UPS



Centurion 3/3 UPS series provides powerful and overall protection to your sensitive devices 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 centers, industrial processes, telecommunication and security systems.

This small footprint, high power density, double-conversion online UPS has an output power factor of 0.9. It features complete dual mains inputs ranging from 10kVA to 30kVA. It also includes Digital Signal Processing (DSP) technology and active input power factor correction design. This ensures a stable, superior output power quality.

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)

Efficiency

- DSP technology guarantees high performance
- Output power factor 0.9
- Active power factor correction on all phases
- ECO mode operation for energy saving (ECO)

Versatility

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

LCD Display

The Centurion 3/3 has an informative LCD Display with programmable features

Battery Bank Extension Options

- The Centurion 3/3 UPS provides the option to increase battery backup time by simply adding additional battery banks.
- To address the need for fast charging of multiple battery banks, PowerShield engineers have incorporated additional independent internal chargers into the PSCEBB40 and PSCEBB60CH.

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
- Battery Banks - Backup time for all models is easily extended by simply plugging additional battery banks PSCEBB40, PSCEBB60CH
- External Maintenance Bypass Switches - PS3-1MBSWPB10k or PS3-1MBSCPb10k, PS3-1MBSWPB20k or PS3-1MBSCPb20k, PS3-1MBSWPB30k or PS3-1MBSCPb30k



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CENTURION 3/3 TRUE ONLINE UPS SELECTION GUIDE

MODEL		Centurion 10K 3/3	Centurion 20K 3/3	Centurion 30K 3/3	BATTERY BANKS	
Model Number		PSCE10K(L) 3/3	PSCE20K(L) 3/3	PSCE30K(L) 3/3	PSCEBB40	PSCEBB60CH
Capacity		10000 VA / 9000 W	20000 VA / 18000 W	30000 VA / 27000 W		
INPUT						
Nominal Voltage		220/380, 230/400, 240/415 (3Ph + N)				240Vac (CH*)
Input Voltage Range		190-520 VAC (3-phase) @ 50% load; 305-478 VAC (3-phase) @ 100% load				
Frequency Range		46~54 Hz or 56~64Hz				
Power Factor		0.99 @ 100% load				
OUTPUT						
Output Voltage		220/380, 230/400, 240/415 (3Ph + N)			240Vdc (nominal)	
AC Voltage Regulation (Batt. Mode)		± 1%				
Frequency Range (Synchronized Range)		46~54Hz or 56~64Hz				
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz				
Current Crest Ratio		3:1 (max.)				
Harmonic Distortion		≤ 2 % THD (Linear Load); ≤ 5 % THD (Non-linear Load)				
Transfer Time	AC mode to Batt. Mode	zero				
	Inverter to Bypass	zero				
Waveform (Batt. Mode)		Pure Sine Wave				
EFFICIENCY						
AC Mode		91%	92%	92%		
ECO Mode		96%				
Battery Mode		87%	88%	89%		
BATTERY						
Standard Model	Battery Type	12V / 9AH			12V*9Ah	
	Numbers	20 pcs (18-20 adjustable)*	20 pcs (18-20 adjustable)* x 2 strings	20pcs (18-20 adjustable)* x 3 strings		
	Typical Recharge Time	9 hours recover to 90% capacity				
	Charging Current (Max.)	1A	2A	4A	From UPS	4A (CH*)
Long-run Model	Battery Type	Depending on the capacity of external batteries				
	Numbers					
	Charging Current (Max.)	4A	8A	12A		
COMMUNICATIONS & MANAGEMENT						
Interface		USB or RS232 as standard, Intelligent slot for PSSNMP or PSModbus or PSAS400 dry contact				
Software		Power Shield NetGuard software – supports Windows, Linux and Mac (Free Download)				
LCD Display/Alarm		UPS Status, Load & Battery Level, Input/Output Voltage, Batt. Time Remaining and Fault Indicators				
Audible Alarm		Battery Mode, Low Battery, Overload, Fault				
PHYSICAL						
Standard Model	Dimension D x W x H (mm)	815 x 250 x 826	815 x 250 x 826	815 x 300 x 1000	592 x 250 x 576	592 x 250 x 826
	Net Weight (kgs)	109	164	233	122	180
Long-run Model	Dimension, D x W x H (mm)	592 x 250 x 826	592 x 250 x 826	815 x 300 x 1000		
	Net Weight (kgs)	38	40	64		
ENVIRONMENT						
Humidity		0-95% RH @ 0-40°C (non-condensing)				
Noise Level		Less than 60dB @ 1 Meter	Less than 65dB @ 1 Meter			
COMPLIANCE						
Safety / EMC / RoHS		EN62040-1 -1 2003, IEC 60950-1 -1 / EN62040-2 2006 / Directive 2011/65/EU				

When using internal batteries from 16, 18 and 19, the unit will be de-rated according to the formula: P = rating X N/20. De-rating capacity to 90% when the output voltage is adjusted to 208VAC. Specifications are subject to change without prior notice. Models ending in "L" are long run models with larger chargers and therefore have no internal batteries. *CH represents Charger.

Extended battery options available for 10k and 20k models

BATTERY RUNTIMES	Centurion 10K 3/3	Centurion 20K 3/3
UPS Backup	17 minutes 50% / 5 minutes @ 100%	16 minutes @ 50% / 5 minutes @ 100%
UPS + PSCEBB40	60 minutes @ 50% / 25 minutes @ 100%	48 minutes @ 50% / 16 minutes @ 100%
UPS + PSCEBB40 + PSCEBB60CH	145 minutes @ 50% / 60 minutes @ 100%	80 minutes @ 50% / 35 minutes @ 100%
UPS + PSCEBB40 + PSCEBB60CH + PSCEBB40	200 minutes @ 50% / 95 minutes @ 100%	105 minutes @ 50% / 50 minutes @ 100%

UPS load capacity is calculated at PF=0.7.