

Centurion 3/1

10–20kVA



True Online Double Conversion UPS



The Centurion 3/1 UPS series provides outstanding protection in applications where only limited three phase power is available yet a large single phase power supply is necessary. In applications where a balanced load is essential, the 3/1 Series has all of the features of the Centurion Tower Range with the added ability of accepting three phase power to its input. It can also be configured to be a single phase in and single phase out UPS.

With the same user friendly LCD display as the Centurion Tower Range, operators can interrogate and program the UPS on the front panel as well as with the included software. These small footprint UPSs can fit tight space requirements and come standard with internal batteries. If longer backup time is needed, the long run models are available with extra large chargers.

Features



Exceptional Surge Protection

- Offering the best protection in its class to protect against damaging surges
- True online double-conversion

Emergency Power Off Function

- This feature can turn off and isolate the UPS in the event of fires or other emergencies

Efficiency

- DSP technology guarantees high performance
- Wide input voltage range (110-300Vac)
- Input power factor correction on all phases
- ECO mode operation for energy saving (ECO)

Versatility

- 50Hz/60Hz frequency converter mode
- Adjustable output voltages
- Includes Intelligent Slot, USB and RS232 connections
- Single phase configuration option
- Generator compatible
- Optional N+X parallel redundancy

LCD Display

- The Centurion 3/1 has an informative LCD Display with programmable features

Battery Bank Extension Options

- The Centurion 3/1 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
- PSMdbus - 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 PS3-1MBSCP10k, PS3-1MBSWPB20k or PS3-1MBSCP20k



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CENTURION 3/1 TRUE ONLINE UPS SELECTION GUIDE

MODEL	Centurion 10K 3/1		Centurion 20K 3/1		BATTERY BANKS	
Model Number	PSCE10K(L) 3/1		PSCE20K(L) 3/1		PSCEBB40	PSCEBB60CH
Capacity	10000 VA / 8000 W		20000 VA / 16000 W			
INPUT						
Nominal Voltage	240 / 415Vac (User Selectable)					240Vac (CH*)
Voltage Range	110-300 VAC ± 5% at 50% load 176-276 VAC ± 5% at 100% load					
Frequency Range	46~54Hz or 56~64Hz (Auto Sensing)					
Input Power Factor	0.99 @ 100% load					
OUTPUT						
Voltage (ac mode)	240Vac (208, 220, 230Vac - User Selectable)				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	89%					
Battery Mode	86%				87%	
BATTERY						
Standard Model	Battery Type	12V*9Ah			12V*9Ah	
	Numbers	20 pcs	40pcs		40pcs	60pcs
	Typical Recharge Time	9 hours recover to 90% capacity				
	Charging Current (Max.)	1A	2A		from UPS	4A (CH*)
Long-run Model	Battery Type /Numbers	Depending on the capacity of external batteries				
	Charging Current (Max.)	4A	8A			
	Charging Voltage	240Vdc (Nominal)				
PROTECTION						
Full Protection	Overload, discharge, thermal, short circuit and overcharge protection				Fuses	
Surge Protection	1320 Joules / 39000 Amps					
COMMUNICATIONS & MANAGEMENT						
Interface	USB or RS232 as standard, Intelligent slot for PSSNMPV4 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, Battery Time Remaining & Fault Indicators					
Audible Alarm	Battery Mode, Low Battery, Overload, Fault					
PHYSICAL						
Standard Model	Dimension D x W x H (mm)	592 x 250 x 576	815 x 250 x 826		592 x 250 x 576	592 x 250 x 826
	Net Weight (kgs)	83	164		122	180
Long-run Model	Dimension, D x W x H (mm)	592 x 250 x 576	592 x 250 x 576			
	Net Weight (kgs)	28	40			
ENVIRONMENT						
Humidity & Temperature	0-95% RH @ 0-40°C (non-condensing)					
Noise Level	Less than 58dB @ 1 Meter					
COMPLIANCE						
Safety / EMC / RoHS	EN62040-1 -1 2003, IEC 60950-1 -1 / EN62040-2 2006 / Directive 2001/65/EU					

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.

BATTERY RUNTIMES	PSCE10K(L) 3/1	PSCE20K(L) 3/1
UPS Backup	12 minutes 50% / 6 minutes @ 100%	12 minutes @ 50% / 6 minutes @ 100%
UPS + PSCEBB40	56 minutes @ 50% / 28 minutes @ 100%	56 minutes @ 50% / 28 minutes @ 100%
UPS + PSCEBB40 + PSCEBB60CH	130 minutes @ 50% / 65 minutes @ 100%	130 minutes @ 50% / 65 minutes @ 100%
UPS + PSCEBB40 + PSCEBB60CH + PSCEBB40	320 minutes @ 50% / 110 minutes @ 100%	320 minutes @ 50% / 110 minutes @ 100%

UPS load capacity is calculated at PF=0.7.