Centurion LiFePO4

Lithium-Iron Phosphate

1000VA ı 2000VA ı 3000VA

True Online Double Conversion UPS

ECO LiFePO4

The **Centurion LiFePO4** features true online double conversion. As our highest single phase power density UPS, this sophisticated range will provide the most comprehensive protection for mission critical devices such as sensitive networks, computers, servers, telecom applications, as well as industrial applications. Meticulously developed by PowerShield engineers to be a world leading technology UPS, the Centurion RT addresses absolutely all requirements and features as has been demanded by the sophisticated Australian power consumer and hence stands in a class of its own, as a world leading UPS technology.

Features

Exceptional surge protection

- Offering the best surge protection in its class to protect against damaging surges

Rack/Tower design

- The Centurion RT can be easily installed as a floor-standing tower or in a 19-inch rack

Programmable outlets

- This UPS comes with programmable power management outlets allowing the user to control the load segments, thereby extending battery backup times to mission critical devices by shutting down non-critical items

HID Communication via USB

- HID can be used for simple management with Windows, Apple, Linux and NAS devices and a large variety of industrial controllers that support HID
- HID ensures a safe and orderly shutdown in the event of a prolonged power outage

NetGuard® Software communication via USB

- The free, downloadable NetGuard® Software provides complete power monitoring. Parameters such as input/output voltage, remaining battery time & load level are easily viewed. It also ensures a safe & orderly shutdown in the event of a prolonged outage

ECO & advanced ECO mode

- It has an advanced ECO mode, which allows the UPS to operate at a very high efficiency, up to 98%. When the utility mains input voltage is within the ECO range the UPS saves energy by passing the mains supply directly through to the load, while the inverter continues to operate in a passive mode

Optional Accessories

- PSSNMPV4 - SNMP card (option to connect a PSEMD)
- PSEMD - Environmental Monitoring, temperature & humidity
- PSModbus - Modbus card
- PSAS400 - AS400 dry contact card
- PSRK - rail kit
- PSMBS2k, PSMBS3k- Maintenance Bypass Switches

The Lithium-Iron Phosphate Advantage

Higher Power Density

Provides longer runtimes

Lighter Weight

Batteries are up to one third lighter making installation and battery changes easier to carry out

Faster Recharge

3 times faster recharge rate

Higher Temperature Tolerance

Batteries can operate in environments up to 40°C without battery degradation

Higher Performance

PowerShield have incorporated an advanced LiFePO4 battery management system. This ensures the utmost efficiency during charging and discharging of the battery system

Safety

With safety as our absolute priority PowerShield engineers chose LiFePO4 batteries. The chemical composition of these batteries ensures that these are non-flammable and as such will not catch fire when exposed to electrical and mechanical stresses.

DESIGNED BY AUSTRALIANS FOR AUSTRALIAN CONDITIONS

PowerShield®

CENTURION RT LiFePO4 RANGE SELECTION GUIDE

MODEL	CENTURION RT LiFePO4 1kVA	CENTURION RT LiFePO4 2kVA	CENTURION RT LiFePO4 3kVA
Model Number	PSLCERT1000	PSLCERT2000	PSLCERT3000
Capacity	1000VA/900W	2000VA/1800W	3000VA/2700W
Topology	True online double- conversion, Pure Sine Wave		

INPUT

Voltage Range	Low Line Transfer	160Vac / 140Vac / 120 / 110Vac ± 5 % (based on load percentage 100%-80% / 80%-70% / 70%-60% / 60%-0)		
	Low Line Comeback	175Vac / 155Vac / 135Vac / 125Vac ± 5 %		
	High Line Transfer	300Vac ± 5 %		
	High Line Comeback	290Vac ± 5 %		
Frequency Range		40Hz - 70Hz		
Phase		Single phase with ground		
Power Factor Correction		≧ 0.99 @ nominal voltage (100% load)		

OUTPUT

Output Power Factor		0.9		
Output Voltage (AC Mode)		240Vac (Selectable 200/208/220/230/240Vac)		
Voltage Regulation (Batt. Mode)		± 1%		
Frequency Range (Batt. Mode)		50Hz or 60Hz ±1Hz		
Current Crest Ratio		3:1 (max.)		
Transfer	AC Mode to Batt. Mode	Zero		
	Inverter to Bypass	4ms (Typical)		
Waveform (Batt. Mode)		Pure Sine Wave		

EFFICIENCY

ECO Mode (Advanced)	96%	97%	97%
Battery Mode	87%	88%	89%

BATTERY

Battery	LiFePO4		
Typical Recharge Time	2 hours		
Backup Time: 25% Load 50% Load 75% Load 100% Load	44 mins 22 mins 14 mins 11 mins	44 mins 22 mins 14 mins 11 mins	44 mins 22 mins 14 mins 11 mins

PROTECTION

Full Protection	Overload, discharge, thermal, short circuit and overcharge protection		
Surge Protection	1872 Joules / 39000 Amps		

COMMUNICATIONS AND MANAGMENT

Interface	USB or RS232 as standard, Intelligent slot for PSSNMP, PSModbus or PSAS400 dry contact		
Software	PowerShield® NetGuard® software - supports Windows, Linux, Unix and Mac based operating systems		
HID	Supports Windows, Apple, Linux, NAS and various industrial controllers		
LCD Display/Alarm	UPS Status, Load & Battery Level, Input/Output Voltage, Batt. Time Remaining and Fault Indicators		
Audible Alarm	Battery Mode, Bypass Mode, Low Battery (Batt. Mode), Fault, Overload		

PHYSICAL

Dimension, (D x W x H) mm	380 x 438 x 88	480 x 438 x 88	600 x 438 x 88
Weight (kg)	10.2	14.6	19.7

OPERATING ENVIRONMENT

Temperature	0 - 40°C		
Humidity	20 - 90% (RH Non-condensing)		
Noise Level	< 50dBA @ 1 Meter		

COMPLIANCE

Safety / EMC / RoHS	EN62040-1-1 2003, IEC60950-1-1 / EN62040-2 2006 / Directive 2011/65/EU		

* Specifications are subject to change without prior notice.

Centurion RT LiFePO4 1000 10Amp IEC input socket

Centurion RT LiFePO4 2000 10Amp IEC input socket

Centurion RT LiFePO4 3000 16Amp IEC input socket