

CENTURION LiFePO₄

Lithium-Iron Phosphate

1000VA | 2000VA | 3000VA



AUSTRALIAN DESIGNED
POWER PROTECTION
SOLUTIONS



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



THE LITHIUM-IRON PHOSPHATE ADVANTAGE

5 YEAR WARRANTY

EXTENDED BATTERY LIFE

Provides double to triple battery life, making it cheaper to run and providing lower total cost of ownership.

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 POWER DENSITY

Provides longer runtimes.

HIGHER TEMPERATURE TOLERANCE

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

HIGHER PERFORMANCE

Advanced LiFePO₄ battery management system ensures the utmost efficiency during charging and discharging.

SAFETY

The chemical composition of LiFePO₄ batteries ensures that they are non-flammable.

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 and orderly shutdown in the event of a prolonged outage.

ECO AND ADVANCED ECO MODE

Advanced ECO mode 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 and humidity
- PSMdbus – Modbus card
- PSAS400 – AS400 dry contact card
- PSRK – rail kit
- PSMB52k, PSMB53k – Maintenance Bypass Switches

CENTURION LiFePO₄

| MODEL | CENTURION RT LiFePO ₄ 1KVA | CENTURION RT LiFePO ₄ 2KVA | CENTURION RT LiFePO ₄ 3KVA |
|--------------------------------------|---|--|---------------------------------------|
| Model Number | PSLCERT1000 | PSLCERT2000 | PSLCERT3000 |
| Capacity | 1000VA/900W | 2000VA/1800W | 3000VA/2700W |
| Topology | True online double-conversion, Pure Sine Wave | | |
| INPUT | | | |
| Voltage Range | Line Loss | 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 | | |
| IEC Outlets | 10A, C13 x 5 | 10A, C13 x 5; 16A, C19 x 1 | |
| Australian Sockets | 3 | 2 | |
| EFFICIENCY | | | |
| ECO Mode (Advanced) | 96% | 97% | 97% |
| Battery Mode | 87% | 88% | 89% |
| BATTERY | | | |
| Battery | LiFePO ₄ | | |
| Typical Recharge Time | 2 hours | | |
| Backup Time: | | | |
| 25% Load | 44 mins | 44 mins | 44 mins |
| 50% Load | 22 mins | 22 mins | 22 mins |
| 75% Load | 14 mins | 14 mins | 14 mins |
| 100% Load | 11 mins | 11 mins | 11 mins |
| PROTECTION | | | |
| Full Protection | Overload, discharge, thermal, short circuit and overcharge protection | | |
| Surge Protection | 1872 Joules / 39000 Amps | | |
| COMMUNICATIONS AND MANAGEMENT | | | |
| Interface | USB or RS232 as standard, Intelligent slot for PSSNMP, PSMdbus 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 | | |

REAR VIEW

Centurion RT LiFePO₄ 1000 10Amp IEC input socket



Centurion RT LiFePO₄ 2000 10Amp IEC input socket



Centurion RT LiFePO₄ 3000 16Amp IEC input

