CENTURION RT LiFePO₄

Lithium-Iron Phosphate Long Run

1000VA | 2000VA | 3000VA

























The Centurion LiFePO4 features true online double conversion topology. Expanding upon the successful standard run Centurion LiFePO4 series, this sophisticated long run range will provide the most comprehensive protection & battery autonomy density 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

Smart**Lithium**

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

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 prioritises safer operations

SCALABLE/HIGH DENSITY BATTERY

The Centurion RT LiFePO₄ Long Run is targeted at long battery autonomy requirements, whilst requiring the least amount of standard 19-inch rack footprint as possible.

NETWORK COMMUNICATIONS

Centurion RT LiFePO₄ Long Run comes Network Ready & pre-bundled with the PSSNMPV4 Web/SNMP Network card enabling remote management.

For seamless single-pane-of-glass monitoring of your PowerShield installed base, the free PowerShield SNMP MultiView software is readily available for download on the website bare.

SOPHISTICATED CONTROL

Remote control and scheduled power management empower users and MSPs to augment UPS protection to workload priorities and further extend battery backup times for the most critical applications. This capability enhances response triage and provides clear decision-making support, particularly for managing remote locations.

EXCEPTIONAL SURGE PROTECTION

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

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

- PSEMD Environmental Monitoring, temperature and humidity
- PSModbus Modbus card
- PSAS400 AS400 dry contact card
- PSMBS2k, PSMBS3k Maintenance Bypass Switches
- Surge Filters Self-sacrifical bespoke devices that safeguard all downstream equipment, including the UPS.
- Automatic Tranfer Switches Ensure power availability and redundancy for uninterrupted operations.

CENTURION LiFePO₄ LONG RUN								
MODEL		1000VA	2000VA	3000VA				
Model Number		PSL1KLRNB4U	PSL2KLRNB4U	PSL3KLRNB4U				
Capacity		1000VA/900W	2000VA/1800W	3000VA / 2700W				
INPUT								
Nominal Input Voltage		230VAC						
Input Voltage	Range	160 VAC-300VAC @100% load						
		110 VAC @ 60% load (Derating)						
Frequency Range		40Hz ~ 70 Hz						
Phase		Single phase with ground						
Input Surge Energy Rating		1872 Joules						
Power Factor		156 220 644	≥ 0.99 @ full load	156 220 620				
Input Connect	lon	IEC 320 C14	IEC 320 C20	IEC 320 C20				
OUTPUT	ut Valtaga		2201/47					
Nominal Outp		230VAC						
Output Voltage Option AC Voltage Regulation		220VAC, 240VAC ± 1% Nom.						
Charging curre	9	5A	± 1% Nom.	10A (load>95%, derating to 6A)				
		3 x ANZ 3Pin + IEC320 C13 x 5	3 x ANZ 3Pin + IEC320 C13 x 5	2 x ANZ 3Pin + IEC320 C13 x 5 +				
Output Conne		3 A AINZ 31 III + ILC320 C13 X 3		IEC320 C19 x 1				
Frequency Range (Synchronized Range)		47 ~ 53 Hz or 57 ~ 63 Hz						
Frequency Range		50 Hz \pm 0.1 Hz or 60Hz \pm 0.1 Hz (Batt. Mode)						
Current Crest			3:1					
Harmonic Dist		≤ 3% Th	HD (Linear Load) ; 6 % THD (Non-line	ar Load)				
Transfer Time	AC to DC mode		Zero					
	Inverter to Bypass		< 4 ms					
Waveform (Batt. Mode)		Pure Sinewave						
Overload AC mode		105-125% 2min ; 125-140% 30s ; >140% 0s; (<35°C)						
Capacity EFFICIENCY	Battery Mode		05-120% 1min ; >120% 0s; (<35°C)				
AC Mode		90%	90%	91%				
ECO Mode		30 70	≥96%	3170				
Battery Mode		85%	85%	86%				
PHYSICAL		0370	6576	00 /0				
Dimension, D	xWxH(mm)		630 x 438 x 172 (4RU)					
Net Weight (kg	gs)	36.2	37	38				
ENVIRONME								
Operation Humidity		0–95 % RH @ 0–40°C (non-condensing)						
Noise Level		Less than 50dBA @ 1 Metre in AVG						
MANAGEME	NT							
Interface			V4 Network Card as standard, optional					
Software		PowerShield® NetGuard® software – supports Windows, Linux, Unix and Mac based operating systems						
LCD Display / Alarm		UPS Status, Load & Battery Level, Input/Output Voltage, Battery Time Remaining and Fault Indicators						
Audible Alarms		Battery Mode, Bypass Mode, Low Battery (Battery Mode), Fault, Overload						
BATTERY BA	NK							
Model		PSLBB50R2U						
Cell type		LiFePO ₄						
DC Voltage and Capacity		48V, 50Ah						
Recharge Time		8.5 hours						
Dimensions, D x W x H, mm		630 x 438 x 86 (2RU)						
Net Weight (Kgs)		28.2						
REGULATORY APPROVALS								
Safety / EMC / RoHS WARRANTY		IEC 62040, IEC 62368, IEC 62619, UN38.3 / IEC 62040 / Directive 2011/65/EU						
Manufacturer Warranty		5 Years						
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BATTERY AUTONOMY (APPROXIMATE, SUBJECT TO ENVIRONMENTAL & OTHER FACTORS)							
LOAD %	PSL1KLRNB4U	PSL2KLRNB4U	PSL3KLRNB4U	EXTENDED AUTONOMY			
25	440	231	181	ADD ADDITIONAL PSLBB50R2U BATTERY BANKS AS NEEDED			
50	260	136	85				
75	168	83	53				
100	135	60	40				