Centurion RT

1000VA ǀ 2000VA ǀ 3000VA

True Online Double Conversion UPS

The Centurion RT 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

Output power factor 0.9

- The Centurion RT is high-density UPS with output power factor 0.9 to provide higher performance and efficiency to critical applications.

Informative & easy-shift LCD display

- The front panel LCD display panel is readily viewable whether the UPS is horizontal or vertical. It displays all critical and noncritical parameters, including the estimated battery backup time remaining.

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.

Emergency Power Off Function (EPO)

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

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.

Standard extra large charger

- The Centurion RT has been designed with a larger charger than other UPSs ensuring rapid recharge times when adding additional battery banks.

Hot swappable batteries

- Incorporates hot-swappable internal battery packs which can be accessed via the front panel for maintenance changes, keeping the UPS operational during battery replacement. Additional battery banks can be added to increase battery backup time.

Optional Accessories

- PSSNMP - SNMP card (option to connect a PSEMD)
- PSEMD - Environmental Monitoring Device for temperature & humidity
- PSModbus - Modbus card
- PSAS400 - AS400 dry contact card
- PSRK - 1RU rail kit
- PSRTBB6, PSRTBB12 - Extra battery bank
- MBS2k, PSMBS3k- Maintenance Bypass Switch

DESIGNED BY AUSTRALIANS FOR AUSTRALIAN CONDITIONS

PowerShield®

CENTURION RT RANGE SELECTION GUIDE

MODEL	CENTURION RT 1000K	CENTURION RT 1000K (L)	CENTURION RT 2000K	CENTURION RT 2000K (L)	CENTURION RT 3000K	CENTURION RT 3000K (L)	RT BATTERY BANKS	
Model Number	PSCERT1000	PSCERT1000L	PSCERT2000	PSCERT2000L	PSCERT3000	PSCERT3000L	PSRTBB6	PSRTBB12
Capacity	1000VA/900W		2000VA/1800W		3000VA/2700W		Suits PSCERT1000	Suits PSCERT2000/ PSCERT3000
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	170Vac / 150Vac / 130Vac / 120Vac ± 5 %							
	High Line Transfer	300Vac ± 5 %							
	High Line Comeback	290Vac ± 5 %							
Frequency Range		40Hz - 70Hz							
Phase		Single phase with ground							
Power Factor Correction		$\geq$ 0.99 @ nominal voltage (100% load)							

OUTPUT

Output Power Factor	0.9							
Output Voltage (AC Mode)	240Vac (Selectable 208/220/230/240Vac)							
Voltage Regulation (Batt. Mode)	± 1%							
Frequency Range (Batt. Mode)	50Hz or 60Hz ±1Hz							
Current Crest Ratio	5:1 (max.)							
Transfer Time	4ms (Typical)							

EFFICIENCY

ECO Mode (Advanced)	98%	98%	98%		
Battery Mode	86%	87%	87%		

BATTERY

Battery Type & Number	12 V*9AH (x 3)	12 V*9AH (x 6)	12 V*9AH (x 6)	12 V*9AH (x 6)	12 V*9AH (x 12)
Typical Recharge Time	4 hours recover to 90% capacity (for standard model only)				
Charging Current (max.)	Standard Models - 1.5Amp. Long Run Models - 1Amp / 2Amp / 4Amp / 6Amp selectable (factory default is 6Amp)				

PROTECTION

Full Protection	Overload, discharge, thermal, short circuit and overcharge protection							
Surge Protection	984 Joules / 22000 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 based operating systems, Linux, Unix and Mac							
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	480 x 438 x 88		600 x 438 x 88		600 x 438 x 88		480 x 438 x 88	600 x 438 x 88
Weight (kg)	18	10	29.6	13.8	29.6	13.8	22	42

OPERATING ENVIRONMENT

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

COMPLIANCE

Safety	EN62040 - 1 - 1 2003, IEC60950 - 1 - 1							
EMC	EN62040-2 2006							
RoHS	Directive 2011/65/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
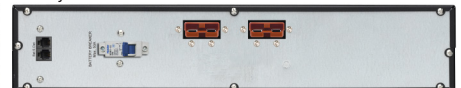
Centurion RT 1000 (L) 10Amp IEC input socket

Centurion RT 2000 10Amp IEC input socket

Battery Bank PSRTBB6

Centurion RT 2000 (L) 16Amp IEC input socket

Centurion RT 3000 (L) 16Amp IEC input socket

Battery Bank PSRTBB12