Centurion RT

6000VA | 10kVA



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

Unity Output power factor (PF=1)

 The Centurion RT is a high-density UPS with unity output power factor (PF=1) 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 remaining battery backup time

Rack/Tower design

- The Centurion RT can be easily installed as a floor-standing tower or in a 19-inch rack
- High power density means that both the UPS and the battery bank are only 2RU height each

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

Hot swappable batteries

 Battery banks are hot-swappable. This keeps the UPS operational during battery replacement. Additional battery banks can be added to increase battery backup time

HID Communication via USB



 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, battery capacity and load level are easily viewed.
 It also ensures a safe and orderly shutdown in the event of a prolonged outage

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
- Larger charger allows for easy addition of extra battery banks

Optional Accessories

- PSSNMPV4 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
- PSRTBB16, PSRTBB20 Extra battery modules
- PSMBSR10K Maintenance Bypass Switches
- PSPDU10K 10KVA PDU with 10A IEC 320 C13 (x8), 16A IEC 320 C19 (x4)





Model Note Post	CENTU	IRION RT RANC				
Capacity 60000A600000 100 kW-106W Suits PCHRIDA Topical or Thus and the double-conversion, Pure Sine Wave NO 10 June 1 10 - 300 Vac ® (0 - 60%) Load; 140 - 300 V ® (60 - 80%) Load; 170 - 300 Vac ® (80 - 100%) Load Colspan="2">Colspan="2"	MODEL					
Trape cont Trape cont Trape cont Pure Sine Wave Subst NCRIBOULA PICERTON	Model Number		PSCERT6000L	PSCERT10KL	PSRTBB16	PSCERBB20
Tags	Capacity		6000VA/6000W	10kVA/10kW	Suits PSCERT6000L&PSCERT10KL	
Line Loss	Topology		True online double-conv	version, Pure Sine Wave		
Low Line Correback Low Line Loss Voltage + 10V High Line Correback High Line Loss Voltage + 10V High Line Correback High Line Loss Voltage + 10V High Line Correback High Line Correback High Line Loss Voltage + 10V High Line Correback High Line Loss Voltage + 10V High Line Loss Voltage	INPUT					
Down Line Combance Claw Line Loss Vorlage + 10	1	Line Loss	110~300Vac @ (0~60%) Load; 140~300V @ (60~80%) Load; 176~300Vac @ (80~100%) Load			
Property Range		Low Line Comeback	Low Line Loss Voltage + 10V			
Single phase with ground Input Power Factor Correction ≥ 0.99 @ nominal voltage (100% load) OUTPUT A 64 Mode (100% Selectable 2008 / 220 / 230 / 240 WAC) £ 1% (September 2008 Manage) \$ 648 Lt. > 54 kt. 26 SOH2 system \$ 670 Mode (100% - 110% : 100% : 110% : 130% : 130% : 130% : 136cc \$ 200 Manage (100% - 110% : 100% : 110% : 130% : 130% : 136cc \$ 200 Mode (100% - 110% : 100% : 110% : 330% : 130cc \$ 21 Manage (100% - 110% : 300cc : 110% - 130% : 130cc : 130% : 136cc \$ 21 Manage (100% - 110% : 130cc : 110% - 130% : 130cc : 130% : 130cc \$ 21 Manage (100% - 110% : 130cc : 1		High Line Comeback	High Line Loss Voltage - 10V			
Imput Power Factor Correction ≥ 0.99 @ nominal voltage (100% load)	Frequency Range		46Hz ~ 54 Hz @ 50Hz system; 56Hz ~ 64 Hz @ 60Hz system			
Outpru/Vallage 240Vac (selectable 208 / 201 / 201 / 201 / 240VAC) Colspan="2">C	Phase		Single phase with ground			
Output Voltage 240Vac (Selectable 208 / 220 / 220 / 240VAC) 4 AC Voltage Regulation ± 1% 4 Frequency Range (Batt Mode) 56Hz - 64 Hz @ 60Hz system 56Hz - 64 Hz @ 60Hz system Spring Common Range (Batt Mode) 50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz 50Hz + 64 Hz @ 60Hz ± 0.1 Hz Overload (Battery Mode) 100%-110%: 10min; 110%-130%: 11min; >130%: 15ec 50Hz ± 64 Hz @ 60Hz ± 0.1 Hz Current Crest Ration 3:1 Max 50Hz ± 64 Hz @ 60Hz ± 0.1 Hz 50Hz ± 64 Hz @ 60Hz ± 0.1 Hz Harmonic Distortion ≥ 1% @ 100% 110%: 10min; 110%-130%: 15ec ; >130%: 15ec 50Hz ± 64 Hz @ 60Hz ± 0.1 Hz Frencetro Bispass (Part Hz & 60Hz ± 7) 0 ms 50Hz ± 64 Hz @ 60Hz ± 0.1 Hz Ferricure V 0 ms 50Hz ± 64 Hz @ 60Hz ± 0.1 Hz AC Mode (Part Hz & 60Hz ± 7) > 94% 50Hz ± 64 Hz Battery Mode (Part Hz & 60Hz ± 7) > 94% 50Hz ± 74 Hz Battery Banks (Part Hz & 60Hz ± 7) PSRTBB16 (standard), PSCERBB20 (optional), Customised options available 50Hz ± 74 Hz Battery Banks (Part Hz & 60Hz ± 7) PSRTBB16 (standard), PSCERBB20 (optional), Customised options available 50Hz ± 74 Hz Battery Banks (Part Hz & 60Hz ± 74 Hz PSRTBB16 (standard),	Input Power Factor Correction		\geqq 0.99 @ nominal voltage (100% load)			
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Frequency Range Safety = Safety Safety = Safety = Safety = Safety = Safety = Safety Safety = Safety = Safety = Safety = Safety = Safety Safety = Safety	Output Voltage		240Vac (Selectable 208 / 220 / 230 / 240VAC)			
Synchronized Range S6Hz = 6H Hz @ 60Hz system	AC Voltage Regulation		± 1%			
Overload Received Figure 10 Mode AC Mode 100%-110%: 10min; 110%-130%: 11min; >130%: 1sec Image: 130% or 150% or 15						
Overload Battery Mode 100%-110%: 30sec; 110%-130%: 10sec; >130%: 1sec Image: 100%-110%: 30sec; 110%-130%: 10sec; >130%: 1sec Current: I I I I I I I I I I I I I I I I I I I	Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz			
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Hammor be be better be		Battery Mode	100%~110%: 30sec ; 110%~130%: 10sec ; >130% : 1sec			
Transfer Inventer to Bypass 1	Current Crest Ration		3:1 Max			
Inverter to Bypass	Harmonic Distortion		≧ 1 % @ 100% Linear Load; ≧ 4% @ 100% Non-linear Load			
Inverter to Expo Inverter Expo Inverte	1	Line to Battery	0 ms			
### Price		Inverter to Bypass	0 ms			
AC Mode		Inverter to Eco	< 10 ms			
Battery Mode > 93% Seating Parks Seating P	EFFICIE	NCY				
BATTERY Battery Banks PSRTBB16 (standard), PSCERBB20 (optional). Customised options available Battery Number Batteries are 12Vdc. Customised optional strings of 16, 17, 18, 19, 20 x 16 x 20 Typical Recharge Time 4 hours for PSRTBB16 and PSCERBB20 Charging Current (max.) 4A ± 10% COMMUNICATIONS AND MANAGMENT Interface USB and RS232 as standard Software PowerShield® NetGuard® software - supports Windows, Linux, Unix and Mac based operating systems HID Supports Windows, Apple, Linux, NAS and various industrial controllers Optional Intelligent slot for PSSNMPV4, PSModbus or PSAS400 dry contact PHYSICAL Dimension, (D x W x H) mm Weight (kg) 13.5 16 54 57 OPERATING ENVIRONMENT Temperature 0 ~ 40°C Humidity 95% (RH Non-condensing) Altitude < <10000m	AC Mode		> 94%			
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OPERATING ENVIRONMENT Temperature 0 ~ 40°C Humidity 95% (RH Non-condensing) Altitude <1000m			UPS Unit: 655 x 438 x 88 [2U] 17kg	UPS Unit: 655 x 438 x 88 [2U] 20kg	733 x 438 x 88 [2U]	580 x 438 x 133 [3U]
Temperature 0 ~ 40°C Humidity 95% (RH Non-condensing) Altitude <1000m	Weight (kgs)		13.5	16	54	57
Humidity 95% (RH Non-condensing) Altitude <1000m	OPERATING ENVIRONMENT					
Altitude <1000m	Temperat	ure	0 ~ 40°C			
	Humidity		95% (RH Non-condensing)			
Noise Level Less than 55dB @ 1 Meter Less than 58dB @ 1 Meter	Altitude		<1000m			
	Noise Level		Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter		

- Product specifications are subject to change without notice Derate capacity to 60% in CVCF mode

- Derate capacity to 90% when the output voltage is adjusted to 208VAC

 If the UPS is installed or used in a place where the altitude is above 1000m, the output power must be derated one percent per 100m
- Power Factor = 1 when using 20 battery string; Power Factor = 0.9 when using 18 to 19 battery string; Power Factor = 0.8 when using 16 to 17 battery string





Rear Battery Pack PSRTBB16