

PowerShield®



In applications where only limited three phase power is available yet a large single phase power supply is necessary, the PowerShield® Centurion 3/1 Rack ticks all the boxes. Recommended in applications where a balanced load is required, the Centurion 3/1 Rack Series has all of the feature of the Centurion range with the added ability of accepting three phase power to its input.

Like the Centurion range, the 3/1 Rack range boasts the same User friendly LCD display that allows the operator to interrogate and program the UPS on the front panel as well as with the included software. The Centurion 3/1 Rack UPS will accommodate any standard 19 inch rack.

It can also be configured to be a single phase in and single phase out UPS.

Models come standard, as long-run and external battery banks must be added.

applications include:

- critical servers
- networks PSMdbus or PSAS400
- critical IT applications
- PLCs
- security equipment
- manufacturing
- balancing loads



Centurion 3/1 Rack



features

- True double-conversion
- DSP technology guarantees high performance
- Output powerfactor 0.8
- Wide input voltage range (110-300Vac)
- Active power factor correction in all phases
- Built-in phase auto adapt function simplifies wire installation
- 50Hz/60Hz converter mode auto select
- Eco mode operation for energy saving (ECO)
- Emergency power off function (EPO)
- Generator compatible
- USB, RS-232 as standard
- Intelligent slot for PSSNMP or PSMdbus or PSAS400
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Optional N+X parallel redundancy

THE AUSTRALIAN UPS COMPANY



CENTURION THREE PHASE/SINGLE PHASE

Model	PSCER10KL 3/1	PSCER20KL 3/1	
Capacity	10000VA/8000W	20000VA/16000W	
INPUT			
Phase	Three phase in/one phase out		
Voltage Range	Low Line Transfer	176VAC (phase voltage) \pm 3 @ 100% load 110VAC (phase voltage) \pm 3 @ 50% load	
	Low Line Comeback	186VAC (phase voltage) \pm 3 @ 100% load 120VAC (phase voltage) \pm 3 @ 50% load	
	High Line Transfer	300VAC (phase voltage) \pm 3 %	
	High Line Comeback	290VAC (phase voltage) \pm 3 %	
Frequency Range	46~54 Hz or 56~64 Hz (Auto sensing)		
Input Power Factor	> 0.99 @ 100% load		
THDi	< 6% @ 100% load		
OUTPUT			
Voltage (ac mode)	208 / 220 / 230 / 240Vac		
AC Voltage Regulation (Batt. Mode)	\pm 1%		
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz		
Frequency Range (Batt. Mode)	50Hz \pm 0.1Hz or 60Hz \pm 0.1Hz		
Current Crest Ratio	3:1 (max.)		
Harmonic Distortion	< 2% THD (linear load) ; < 5 % THD (non-linear load)		
Transfer Time	AC Mode to Batt. Mode	Zero	
	Inverter to Bypass	Zero	
Waveform (Batt. Mode)	Pure Sine Wave		
EFFICIENCY			
AC Mode	89%		
Battery Mode	86%	87%	
BATTERY			
Standard Model	Battery Type	12V/9AH	
	Numbers	20 (18-20 adjustable)	20pcs x 2strings (18-20 adjustable)
	Typical Recharge Time	9 hours recover to 90% capacity	
	Charging Current (max.)	1A	2A
Long-run Model	Battery Type/Numbers	Depending on the capacity of external batteries	
	Charging Current (max.)	4A	8A
	Charging Voltage	273Vdc \pm 1% (based on battery numbers at 20pcs)	
PROTECTION			
Full Protection	Overload, discharge, thermal, short circuit and overcharge protection		
COMMUNICATIONS & MANAGEMENT			
Interface	USB or RS232 as standard, Intelligent slot for PSSNMP or PSAS400 dry contact or PSMdbus		
Software	PowerShield NetGuard® Software - supports Windows based operating Systems, Linux, Unix & Mac		
LCD Display / Alarm	UPS Status, Load Level, Battery Level, Input/Output Voltage, Battery Time Remaining and Fault Indicators		
Audible Alarm	Battery Mode, Low Battery, Overload, Fault		
PHYSICAL			
Standard Model	Dimensions (D x W x H)	UPS unit: (668 x 438 x 133 (3U)) mm Battery pack: (580 x 438 x 133 (3U)) mm	UPS unit: (668 x 438 x 266 (6U)) mm Battery pack: (580 x 438 x 133 (3U)) mm
	Weight (Net)	UPS unit: 22 kg Battery pack: 63 kg	UPS unit: 45 kg Battery pack: 63 kg
Long-run Model	Dimensions (D x W x H)	(668 x 438 x 133 (3U)) mm	
	Weight (Net)	22kg	
ENVIRONMENT			
Operation Humidity	0-95% RH @ 0-40° C (non-condensing)		
Noise Level	Less than 58dB @ 1 meter	Less than 60dB @ 1 meter	
COMPLIANCE			
Safety	EN62040-1-1 2003, IEC60950-1-1		
EMS	EN62040-2 2006		
RoHS	Directive 2001 / 65 / EU		
LOAD			
	LOAD	PSCER10KL 3/1	PSCER20KL 3/1
PSCERBB20(x1)	50%	17 minutes	5 minutes
	100%	5 minutes	2.5 minutes
PSCERBB20(x2)	50%	35 minutes	17 minutes
	100%	17 minutes	7 minutes
PSCERBB20(x3)	50%	60 minutes	25 minutes
	100%	25 minutes	12.5 minutes

* L means long-run model with larger chargers and therefore have no internal batteries

* Product specifications are subject to change without further notice

