

# PowerShield®



The Centurion is designed to protect critical computer, communications, industrial, medical and other mission critical equipment.

A true online double conversion UPS, the Centurion is designed to guarantee trouble-free operation of protected equipment in any harsh electrical environment. Versatile management and hardware options offer the flexibility to build up a power protection solution to fit any application.

This range now comes with two sets of sockets on the back, one row of output sockets are programmable meaning that you can shed less important loads. This will leave additional valuable back up time to the equipment that is most critical.

This UPS includes a stylish, informative LCD display. applications include:

- critical servers
- small networks
- critical IT applications
- PLCs
- telecom applications
- security equipment
- manufacturing



## Centurion Tower



## features

- Surge Protection. Best in its Class.
- True Online Double Conversion
- Wide input voltage range (110-300 VAC)
- Input power factor correction 0.99
- 50Hz/ 60Hz frequency converter mode
- Programmable power outlets
- Emergency power off function (EPO)
- Optional Eco-mode operation for energy saving
- Generator compatible
- Backup time for all models is easily extended by simply plugging additional battery banks
- Charger capacity expansion to 8A for long-run models
- USB, RS232, SNMP and AS400 multiple communications available
- External maintenance bypass available for all models
- N + X parallel redundancy available for 6K/ 10K models
- Monitoring and Shutdown Software included

THE AUSTRALIAN UPS COMPANY



## CENTURION TOWER

Model	PSCE1000 (L)		PSCE2000 (L)		PSCE3000 (L)		PSCE6000 (L)		PSCE10K (L)		
Capacity	1000VA / 900W		2000VA / 1800W		3000VA / 2700W		6000VA / 5400W		10000VA / 9000 W		
Topology	True online double - conversion										
INPUT											
Voltage Range		110 - 300VAC ± 5% at 50% Load 160 - 300VAC ± 5% at 100% Load									
Frequency Range		40Hz ~ 70Hz					46 ~ 54Hz 50Hz / 56 ~ 64Hz 60Hz				
Phase		Single phase with ground									
Power Factor		0.99 @ Nominal Voltage (100% load)									
OUTPUT											
Output Voltage		240VAC (Selectable 208/220/230/240 ac)									
AC Voltage Regulation (Batt. Mode)		± 1%									
Frequency Range (Synchronized Range)		47 ~ 53Hz or 57 ~ 63Hz					46 ~ 54Hz or 56 ~ 64Hz				
Frequency Range (Batt. Mode)		50Hz ± 0.1Hz or 60Hz ± 0.1Hz									
Current Crest Ratio		3:1									
Harmonic Distortion		≤ 2 % THD (Linear Load) ≤ 4 % THD (Non-linear Load)					3 % THD (Linear Load) 6 % THD (Linear Load)				
Transfer	AC Mode to Batt. Mode		Zero								
	Inverter to Bypass		4 ms (Typical)					zero			
Waveform (Batt. Mode)		Pure Sine Wave									
EFFICIENCY											
AC Mode		89%		90%			91%				
Battery Mode		88%		89%			89%				
BATTERY											
Battery Type		12V/9AH(x3)		12V/9AH(x6)		12V/9AH(x6)		12V/9AH(x20)		12V/9AH(x20)	
Typical Recharge Time		4 hours recover to 90% capacity									
Charging Current (max.)		1.5A					1A				
Long Run Models		1/2/4/8A Selectable via LCD					4A				
PROTECTION											
Full Protection		Overload, discharge, thermal, short circuit and overcharge protection									
Surge Protection		1344Joules / 26000Amps					1320Joules / 39000Amps				
COMMUNICATIONS & MANAGEMENT											
Interface		USB or RS232 as standard, Intelligent slot for PSSNMP/PSModbus or PSAS400 dry contact									
Software		PowerShield NetGuard <sup>®</sup> 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											
Dimensions (D x W x H)		396 x 145 x 240mm		425 x 190 x 335mm			575 x 250 x 576.5mm				
Weight Standard/L		14/7kg		26/13kg		28/15kg		81/24kg		83/27kg	
OPERATING ENVIRONMENT											
Temperature		0-40° C									
Humidity		20-90% (RH Non-condensing)									
Noise Level		Less than 50dBA @ 1Meter					Less than 58dBA @ 1Meter				
COMPLIANCE											
Safety		EN62040-1-1 2003, IEC60950-1-1									
EMS		EN62040-2 2006									
RoHS		Directive 2001 / 65 / EU									

\* Product specifications are subject to change without prior notice.

\* L means long-run models with larger chargers and therefore have no internal batteries.



CENTURION TOWER LOAD VA							
VA		LOAD	PSCE1000	PSCEBB6	PSCEBB6	PSCEBB6	
1000VA		100%	12 minutes	45 minutes	80 minutes	115 minutes	
500VA		50%	25 minutes	105 minutes	170 minutes	250 minutes	
							
			PSCE2000	PSCEBB12	PSCEBB18CH	PSCEBB12	
2000VA		100%	12 minutes	50 minutes	115 minutes	145 minutes	
1000VA		50%	25 minutes	110 minutes	215 minutes	290 minutes	
							
			PSCE3000	PSCEBB12	PSCEBB18CH	PSCEBB12	
3000VA		100%	5 minutes	27 minutes	60 minutes	90 minutes	
1500VA		50%	16 minutes	60 minutes	145 minutes	185 minutes	
							
			PSCE6000	PSCEBB40	PSCEBB60CH	PSCEBB40	
6000VA		100%	13 minutes	50 minutes	110 minutes	170 minutes	
3000VA		50%	35 minutes	110 minutes	260 minutes	320 minutes	
							
			PSCE10K	PSCEBB40	PSCEBB60CH	PSCEBB40	
10KVA		100%	5 minutes	27 minutes	60 minutes	100 minutes	
5000VA		50%	16 minutes	60 minutes	145 minutes	205 minutes	
							
TOWER MODELS BATTERY BANKS							
MODEL			PSCEBB6	PSCEBB12	PSCEBB18CH	PSCEBB40	PSCEBB60CH
SUITS UPS			PSCE1000	PSCE2000/3000	PSCE2000/3000	PSCE6000/10K	PSCE6000/10K
BATTERY							
Type			12V/9AH	12V/9AH	12V/9AH	12V/9AH	12V/9AH
Number			6	12	18	40	60
Nominal DC			36Vdc	72Vdc	72Vdc	240Vdc	240Vdc
Charger			From UPS	From UPS	4Amps/8 Amps (selectable)	From UPS	4Amps/8 Amps (selectable)
PHYSICAL							
Dimensions D x W x H			397 x 145 x 220mm	421 x 190 x 318mm	534 x 190 x 318mm	592 x 285 x 576mm	830 x 250 x 576mm
Weight Net/Gross KG			21/22Kg	40/42Kg	62/64Kg	125/132Kg	190/205Kg
PROTECTION			DC Circuit breaker				
VIRTUALLY UNLIMITED RUN TIMES CAN BE ACHIEVED BY ADDING BATTERY BANKS TO STANDARD MODELS							

Notes: Unlimited numbers of batteries banks can be added however it is recommended to add a Battery Bank that has an internal charger (PSCEBB18CH or PSCEBB60CH) if large battery banks are added and fast charging is required. Usually these should be added as the second, third or fourth battery bank depending on your requirements. When these battery banks with chargers are added, it is possible to substantially increase the number of regular battery banks. The following battery banks have built-in chargers. These also have more batteries than regular battery banks. PSCEBB18CH - Suits 2k & 3K  
 • PSCEBB60CH - Suits 6k & 10K

