



## POWERSHIELD DEFENDER UPS SERIES 650VA | 800VA | 1200VA | 1500VA | 1600VA | 2000VA

Peace of Mind Protection from PowerShield's Most Popular UPS Range



**DEFENDER SERIES TOWER UPS**  
650VA | 1200 | 1600VA | 2000VA

Engineered to deliver essential power protection for your most valuable equipment, the Defender UPS Range combines PowerShield's top UPS features with best-in-class surge protection. With models available from 650VA to 2000VA, this series provides reliable Line-Interactive Simulated Sinewave output for battery backup power, while Automatic Voltage Regulation (AVR) minimises input voltage fluctuations to guard against power disturbances. Featuring a sleek LCD display, user-replaceable, hot-swappable batteries, and Australian sockets, the Defender is a trusted favorite among IT professionals.

## SHORT DEPTH RACK MOUNT UPS SERIES

With a shallow depth of just 230mm for the 800VA model and 300mm for the 1500VA model, this rackmountable solution is perfect for fitting into any wall-mounted equipment box.

**DEFENDER SERIES RACKMOUNT UPS**  
800VA | 1500VA



**PowerShield®**



## POWERSHIELD DEFENDER SERIES STANDARD FEATURES

### INFORMATIVE LCD DISPLAY

Modern, stylish LCD display indicates voltage in/out, amount of load and remaining battery time at a glance.

### BUCK AND BOOST AVR FOR VOLTAGE STABILIZATION

The AVR automatically bucks and boosts unstable fluctuating utility voltages, bringing them within 10% of nominal voltage range and thereby protecting valuable equipment.

### USER REPLACEABLE BATTERIES FOR ENHANCED SUSTAINABILITY

The Defender Rackmount Series is engineered with user-replaceable batteries that not only extend your UPS's lifespan but also help reduce e-waste for a greener solution. Plus, the Rackmount 1500 features an industry-leading 10-year battery, ensuring reliable performance for years to come.

### AUTO RESTART ON AC RECOVERY

Experience seamless continuity. After an extended outage, the UPS automatically powers back up and restores your equipment as soon as AC power returns.

### COLD START CAPABILITY

Power up effortlessly. The UPS can initiate connected equipment from an off state simply by being turned on, making it ideal for short-term power needs.

### OFF-MODE CHARGING

Always stay ready. Even when turned off, the UPS continues charging its internal batteries as long as it's plugged in, ensuring dependable backup power whenever you need it.

## SIMPLE MANAGEMENT & COMMUNICATION SOLUTIONS

### HID 'PLUG AND PLAY'

Use the HID compliant USB connection for simple UPS management with Windows, Apple, Linux and NAS devices as well as a large variety of industrial controllers that support HID. HID also ensures a safe and orderly shutdown in the event of a prolonged power outage.

### NETGUARD SOFTWARE COMMUNICATION VIA USB

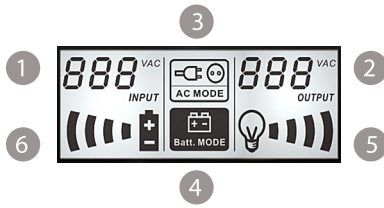
The free, downloadable NetGuard software provides complete power monitoring. Parameters such as input/output voltage, battery remaining time and load level are easily viewed. It also ensures a safe and orderly shutdown in the event of a prolonged outage.

## THE ULTIMATE IN SILENT PERFORMANCE

Thanks to innovative PowerShield engineering, the Defender Tower UPSs stay cool without the need for fans—ensuring a noiseless, efficient operation that perfectly complements any Audio Visual setup. Similarly, our Rack Mount UPSs run fan-free on mains power, providing the ideal, disturbance-free solution for your high-end AV environments.



## DEFENDER TOWER TECHNICAL SPECIFICATIONS



- 1 Input voltage/remaining backup time
- 2 Output voltage
- 3 AC mode indicator
- 4 Battery mode indicator
- 5 Load level indicator, flashing indicates overload
- 6 Battery capacity indicator, flashing indicates low battery level

### REAR VIEWS



PSD650

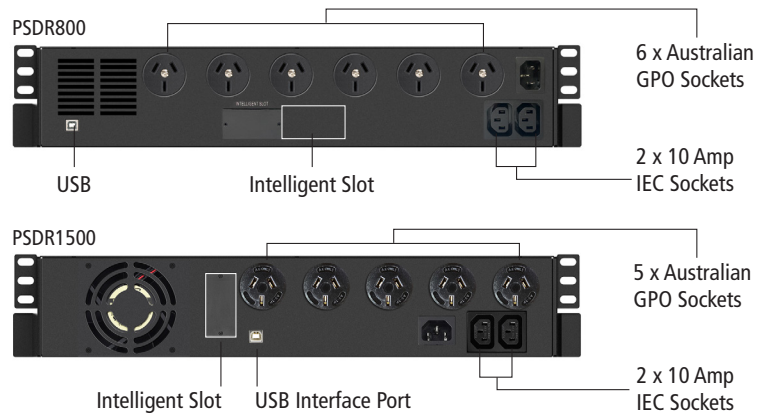


PSD1200 | PSD1600 | PSD2000

DEFENDER RANGE SELECTION GUIDE				
MODEL	DEFENDER 650	DEFENDER 1200	DEFENDER 1600	DEFENDER 2000
Model Number	PSD650	PSD1200	PSD1600	PSD2000
Capacity	650VA / 390W	1200VA / 720W	1600VA / 960W	2000VA / 1200W
Topology	Line Interactive			
<b>INPUT</b>				
Voltage	240VAC (Nominal)			
Voltage Range 1	77–290VAC			
Frequency Range	50/60Hz ± 5Hz (auto sensing)			
<b>OUTPUT</b>				
Output Voltage	240VAC ± 10%			
Frequency	AC mode tracks utility			
Frequency Range (Batt. Mode)	50Hz or 60Hz ± 1Hz			
Transfer Time	6ms (Typical)			
Waveform (Batt. Mode)	Simulated Sine Wave			
Australian Outlets – UPS & Surge Protection	2		3	
Australian Outlets – Surge Protection 0 3	0		3	
<b>BATTERY</b>				
Battery Type & Number	12V / 9Ah (x1)	12V / 7Ah (x2)	12V / 9Ah (x2)	
Typical Recharge Time	6 hours recover to 90% capacity			
Backup Time (50% Load)	6 min	13 min	10 min	5.5 min
<b>PROTECTION</b>				
Full Protection	Overload, discharge, thermal, short circuit and overcharge protection			
Surge Protection	312Joules / 6500Amps	936Joules / 19500Amps		
<b>COMMUNICATIONS &amp; MANAGEMENT</b>				
Interface	USB interface			
Software	NetGuard® supports - Windows®, Linux, Unix and Mac (Free Download)			
HID	Supports Windows, Apple, Linux, NAS and various industrial controllers			
LCD Alarm	AC Mode, Battery Mode, Low Battery (Batt. Mode), Fault, Overload			
Audible Alarm	Battery Mode, Low Battery (Batt. Mode), Fault, Overload			
<b>PHYSICAL</b>				
Dimension L x W x H (mm)	328 x 100 x 145	397 x 146 x 205		
Net Weight (kgs)	5.2	11.1	11.5	12.86
<b>OPERATING ENVIRONMENT</b>				
Temperature	0–40°C			
Humidity	0–90% RH (non-condensing)			
Noise Level	<40dB (no fan)			
<b>COMPLIANCE</b>				
Safety/EMC	(A-tick PSD650) EN62040-1 : 2008, IEC60950-1 : 2001, EN62040-2 2006			
RoHS	Directive 2011/65/EU			

\*Specifications are subject to change without prior notice. \*UPS output capacity is calculated at PF = 0.6.

## DEFENDER RACK MOUNT TECHNICAL SPECIFICATIONS



DEFENDER RACKMOUNT		
MODEL	DEFENDER 800	DEFENDER 1500
Model Number	PSDR800	PSDR1500
Capacity	800VA / 480W	1500VA / 900W
Topology	Line Interactive	
<b>INPUT</b>		
Voltage	240VAC (Nominal)	
Voltage Range 1	177–290 VAC	
Frequency Range	50/60Hz ± 5Hz (auto sensing)	
<b>OUTPUT</b>		
Output Voltage	240 VAC ± 10%	
Frequency Range (Batt. Mode)	50Hz or 60Hz ± 1Hz	
Transfer Time	6ms (Typical)	
Waveform (Batt. Mode)	Simulated Sine Wave	
Australian Outlets – UPS & Surge Protection	6	5
IEC Outlets	2x 10 Amp	
<b>BATTERY</b>		
Battery Type & Number	12V / 9Ah (x1)	12V / 9Ah (x2)
Typical Recharge Time	6 hours recover to 90% capacity	
Backup Time (50% Load)	8 min	
<b>PROTECTION</b>		
Full Protection	Overload, discharge and overcharge protection	
Surge Protection	312Joules / 6500Amps	
<b>COMMUNICATIONS &amp; MANAGEMENT</b>		
Interface	USB as standard, Intelligent slot for PSSNMP	
Software	NetGuard® supports - Windows®, Linux, Unix and Mac (Free Download)	
HID	Supports Windows, Apple, Linux, NAS and various industrial controllers	
LCD Alarm	AC Mode, Battery Mode, Low Battery (Batt. Mode), Fault, Overload	
Audible Alarm	Battery Mode, Low Battery (Batt. Mode), Fault, Overload	
<b>PHYSICAL</b>		
Dimension L x W x H (mm)	230 x 438 x 86	300 x 438 x 86
Net Weight (kgs)	7.7	13.8
<b>OPERATING ENVIRONMENT</b>		
Temperature	0–40°C	
Humidity	0–90% RH (non-condensing)	
Noise Level	<40dB (no fan)	
<b>COMPLIANCE</b>		
Safety/EMC	EN62040-1 -1 2003, IEC60950-1 : 2001, EN62040-2 2006	
RoHS	Directive 2011/65/EU	

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**PowerShield<sup>®</sup>**



PROTECT



BACKUP



CONNECT



AUSTRALIAN DESIGNED  
POWER PROTECTION  
SOLUTIONS