PowerShield Defender UPS Series 650VA ∣ 800VA ∣ 1200VA ∣ 1600VA ∣ 2000VA

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

Defender Series Tower UPS 650VA ∣ 1200 ∣ 1600VA ∣ 2000VA

Designed to provide essential power protection for valued equipment used in a wide range of applications, the **Defender UPS Range** encorporates PowerShield's most popular UPS features while offering the best surge protection in its class.

Offering protection from 650VA up to 2000VA, with the recently added Defender 2000, this series provides Line-Interactive Simulated Sinewave output on battery backup power. Automatic Voltage Regulation (AVR) minimises the effects of fluctuations in input voltage, protecting against power line disturbances.

A stylish LCD display, user replacable, hot swappable batteries and Australian sockets makes the Defender a reliable favourite with IT professionals.

Short Depth 800VA
Rack Mount UPS
Perfect for Comms Racks

Dimensions: 230mmD x 438mmW x 86mmH (2RU)

SECURITY HOME OFFICE NAS TELECOMS HOME THEATRE MODEM

Power Shield®

LINE
INTERACTIVE
★★★★★
ENHANCED
PROTECTION

Defender Series

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.

Hot Swappable batteries

Batteries are easily hot swappable and user replaceable, extending the service life of your UPS.

Auto restart when AC recovers

After an extended power outage the UPS will turn back on and resume equipment functionality once power has returned.

Cold start function

The UPS can turn on equipment when it is off, simply by connecting equipment and turning the UPS on. This is excellent when you need to power equipment for a short time.

Off-mode Charging

The plugged in UPS will continue to charge internal batteries whether the unit is on or off.

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.

Silent Operation - no fans

One of the best features of the Defender Series is that they are silent due to the PowerShield engineering design that allows them to run cool without fans. This makes them the perfect complement to Audio Visual setups.
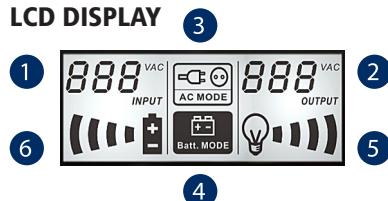
PSDR800

PSD650

PSD1200, 1600, 2000

Power Shield®

Defender Tower Technical Specifications

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 Interative			
INPUT				
Voltage	240Vac (Nominal)			
Voltage Range	177-290Vac			
Frequency Range	50/60Hz ± 5Hz (auto sensing)			
OUTPUT				
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	
BATTERY				
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
PROTECTION				
Full Protection	Overload, discharge, thermal, short circuit and overcharge protection			
Surge Protection	312Joules / 6500Amps		936Joules / 19500Amps	
COMMUNICATIONS & MANAGEMENT				
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			
PHYSICAL				
Dimension L x W x H (mm)	328 x 100 x 145		397 x 146 x 205	
Net Weight (kgs)	5.2		11.5	
OPERATING ENVIRONMENT				
Temperature	0-40°C			
Humidity	0-90% RH (non-condensing)			
Noise Level	Less than 5dBA @ 1 meter (no fan)			
COMPLIANCE				
Safety/EMC	(A-tick PSD650) EN62040-1 -1 2003, 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 = 0.7.

LCD DISPLAY

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

Power Shield®

Defender Rack Mount Technical Specifications

DEFENDER RACKMOUNT 800VA UPS	
MODEL	**DEFENDER RACK 800**
Model Number	PSDR800
Capacity	800VA / 480W
Topology	Line Interative
INPUT	
Voltage	240Vac (Nominal)
Voltage Range	177-290Vac
Frequency Range	50/60Hz (auto sensing)
OUTPUT	
Output Voltage	240Vac ± 10%
Frequency Range (Batt. Mode)	50Hz or 60Hz ±1Hz
Transfer Time	6ms (Typical)
Waveform (Batt. Mode)	Simulated Sine Wave
Australian Outlets - UPS & Surge Protection	2x 10 Amp IEC Sockets, 6 x Australian Sockets
BATTERY	
Battery Type & Number	12V / 9AH (x1)
Typical Recharge Time	4- 6 hours recover to 90% capacity
Backup Time (50% Load)	8 min
PROTECTION	
Full Protection	Overload, discharge and overcharge protection
Surge Protection	312Joules / 6500Amps
COMMUNICATIONS & MANAGEMENT	
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
PHYSICAL	
Dimension L x W x H (mm)	230 x 438 x 86
Net Weight (kgs)	7.7
OPERATING ENVIRONMENT	
Temperature	0-40°C
Humidity	0-90% RH (non-condensing)
Noise Level	Less than 5dBA @ 1 meter (no fan)
COMPLIANCE	
Safety/EMC	EN62040-1 -1 2003, IEC60950-1 : 2001, EN62040-2 2006
RoHS	Directive 2011/65/EU

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Rack not included

Power Shield®

Power Shield®

PROTECT
BACKUP
CONNECT

Australian Designed Power Protection Solutions