



## 1. INTRODUCTION

Thank you for choosing PowerShield. This PowerShield SAFEGUARD UPS is designed to provide safe and reliable usage with minimal maintenance. Before you start please read this manual. It contains instructions relating to safety, installation, operation, maintenance and warranty of this UPS. Please keep this manual in a safe place for future use.

## 2. SAFETY INSTRUCTION

This section contains important safety instructions that should be followed during usage of Power Shield product. Changes and modification to any part of this unit not expressly approved by Power Shield will void the product warranty.

### ATTENTION: Electrical Safety

- Maintenance must be performed by qualified personnel. Failure to do so could result in an electric shock.
- Replace battery only with Power Shield supplied battery.
- Although the product may be unplugged from mains, hazardous voltage still may be present through the battery.
- High current through conductive materials could cause severe burns.
- Check that the input power cord, output receptacles are in good condition.
- In order to maintain compliance with the EMC directive, output cords attached to the UPS should not exceed 10 meters in length.
- Total leakage current from connected equipment and the UPS must not exceeded 3.5mA for a pluggable A type UPS.

### CAUTION: Battery Safety

- When replacing the batteries, use the same number and type of batteries. See [www.powershield.com.au](http://www.powershield.com.au)
- Do not dispose of batteries in a fire. The battery may explode. Do not open or mutilate the battery. Released electrolyte is harmful to the skin and eyes.

- A battery can present a risk of electric shock and high short circuit current. The following precaution should be observed before replacing batteries
- This unit contains no serviceable components other than battery. Repairing of the product must only be performed by qualified service personnel.

## 3. PACKAGE CONTENTS

You should have received the following items inside of package:

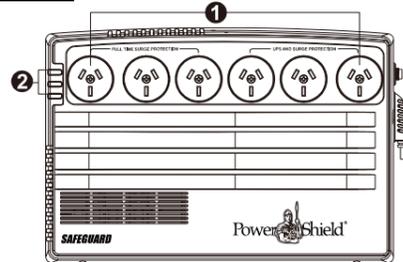
- PowerShield SAFEGUARD 750VA UPS
- PowerShield User's Manual
- Communication / USB cable

Note: Before installation, please inspect the unit and make sure that no damages have occurred during transit. If any damage is found, please notify your dealer. Please keep the shipping materials in the event the product must be returned to a repair centre for service.

## 4. PRODUCT OVERVIEW

SAFEGUARD will protect your telephone system, PC and other electronic devices from various power quality issues including power loss. This UPS features three LED indicators to display the status of UPS.

### FRONT VIEW



- ① **UPS & SURGE PROTECTION (x3)** – These outlets will provide power while mains power is present and the UPS is “ON”. It will also provide power for a limited time from the internal battery when the mains fail.
- ② **FULL TIME SURGE PROTECTION (x3)** – These outlets do not provide any backup power when mains fail. They do however provide continuous protection against surges and the like and are perfect for peripherals that do not need battery backup
- ③ **Status indicators (See 7. STATUS INDICATOR AND BEEPER section)**

### TOP VIEW



- 3. AC input Cord
- 4. Input circuit breaker (10 Amp)
- 5. RJ45–modem/ phone/ network Protection
- 6. ON/OFF Switch
- 7. USB interface port

## 5. GETTING STARTED

### Placement

Avoid placing SAFEGUARD in

- Direct sunlight
- Excessive heat
- Excessive humidity or in contact with fluids of any type



### CONNECT EQUIPMENT & INITIAL STARTUP

Plug the AC input cord into the wall outlet. Turn on the UPS by pressing the “ON/OFF” button on the UPS. For the best results, charge the battery for at least 4 hours before initial use.



Once UPS is fully charged, you may now proceed to connect equipment.

### UPS & SURGE PROTECTION (x3)

Only devices that require battery backup such as PCs should be plugged into these outlets.



### FULL TIME SURGE PROTECTION (x3)

Devices like printers that do not require battery backup should be plugged into these outlets. These devices will be protected against surges and spikes

**CAUTION: NEVER** connect a laser printer or scanner to the “UPS & SURGE PROTECTION” outlets. This may cause damage to the unit.

### CONNECTING MODEM/PHONE/NETWORK

Connect a single modem/phone/network line into surge protected “IN” connector on the back panel of the unit.

Connect from “OUT” connector to the computer with telephone line cable.

### CONNECTING USB COMMUNICATION CABLE

To allow for unattended OS shutdown, start up and status monitoring, connect the USB communication cable at one end to the UPS and the other end to the PC.

### COLD START FUNCTION

When the UPS is “OFF” and there is no utility power, it is still possible to cold start the UPS to power the loads providing your battery has sufficient charge.

## WALL MOUNT of UPS

SAFEGUARD can be mounted to a wall surface. Use template provided on your product box flaps as a template to position the mounting fastener (not supplied).

Wall mount this product as follows:

1. Cut the template from your product box and hold the cardboard template against the wall in the desired location.
2. Use thumbtack or tape to secure the template against the wall. Use pin to puncture the centre of each circle to mark the wall.
3. Install the mounting fastener at marked location. Leave the head of both fasteners 8mm out from the wall. The fastener must be able to support 7.0kg.
4. Mounting the unit by positioning the keyhole slots over the mounting fastener heads.

## 6. SOFTWARE INSTALLATION



1. Download and install the latest NetGuard UPS monitoring Software from: [www.powershield.com.au/index.php/download](http://www.powershield.com.au/index.php/download)
2. Follow the on-screen instructions to install the software.
3. When your computer restarts, the monitoring software will appear as an orange plug icon located in the system tray, near the clock.
4. Default password is : administrator

## 7. STATUS INDICATOR AND BEEPER

SAFEGUARD provides status indicator through three LEDs located at side of the product as well as audible beep. The indications are shown below.

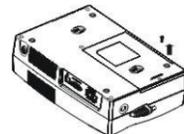
STATUS	Green LED	Yellow LED	Red LED	Beeper
On line Operation	Solid on	Off	Off	No Beep
On battery Operation	Off	Solid on	Off	2 beeps every 30 sec
Low battery status	Off	Flashing (1 flashing every 1sec)	Off	Rapid beep ( one second intervals)
On line Overload	Solid on	Off	Solid on	Constant beeping
On battery overload	Off	Solid on	Solid on	Constant beeping
Bad battery detected	Flashing (1 flashing every 1sec)	Off	Flashing (1 flashing every 1sec)	Constant beep
Internal Fault	Off	Off	Solid on	Constant beeping
Unit performing Battery test via software	Flashing (1 flashing every 1sec)	Solid on	Off	No Beep

## 8. BATTERY REPLACEMENT

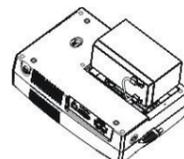
SAFEGUARD has user replaceable batteries. Please read following warnings and instruction carefully before proceeding with the battery replacement.

- 1) Remove watches, rings, or other metal objects.
- 2) Use tools with insulated handles.
- 3) Wear rubber gloves and boots.
- 4) Do not lay tools or metal parts on top of batteries.
- 5) Turn off UPS (Make sure all indicators are off)
- 6) Turn off mains (AC supply)
- 7) Disconnect AC input cord from the mains

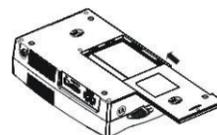
- 1 TURN the unit over and Remove the screws located on the bottom of the UPS to open the battery cover.



- 2 LIFT the battery out of its compartment and disconnect first the Red and then the Black wire connecting it to the UPS. Replace the same type of battery.



- 3 Slide the battery compartment cover back to close the battery housing.



## 9. TROUBLE SHOOTING

Check Power Shield FAQ web page or phone technical support for an assistance with a problem that cannot be resolved using the trouble shoot table below:

Problem	Probable Cause	Solution
The UPS will not turn on.	Battery is disconnected or utility power is not available at the wall outlet.	Connect the battery and ensure power is available at the wall outlet. Ensure that the UPS is turned on
Yellow LED is on, and 2 beeps every 30 seconds. But mains are normal.	UPS is not connected properly to the mains.	Connect the UPS according to the installation guide.
	Circuit breaker has tripped	Reset circuit breaker on the UPS
UPS shutdown after a few seconds and circuit breaker has tripped.	UPS output is short-circuited, possibly due to defective equipment.	Disconnect your computer from the UPS and then reset the breaker.
Inadequate runtime	Battery is not fully charged.	Charge the unit at least 4 hours.
	Battery is near the end of useful life.	As a battery ages, the amount of runtime available will decrease. Replace battery.

## 10. Product specification

ITEM	SPECIFICATION
INPUT	<b>240Vac Nominal</b>
Capacity	750VA/450W
Voltage	240VAC
Voltage Range	177-290VAC
OUTPUT	
Voltage Regulation	±10%
Transfer Time	Typical 2-6ms, 10ms max.
Waveform (Battery Mode)	Simulated Sine Wave
BATTERY	
Type & Number	12V/9AH x 1
Recharge Time	4 hours recover to 90% capacity
PROTECTION	
Surge Protection	468 Joules / 11000A
PHYSICAL	
Dimension, (DXWXH)mm	292 x 199 x 91 (Foot included)
Net Weight (Kg)	5.88
OPERATION ENVIRONMENT	
Humidity	0-90% RH @ 0- 40°C (non-condensing)
Noise Level	Less than 40dB
INTERFACE	
USB Port	Supports Windows NT/2000/2003/XP/Vista/2008/7/8, Linux, Unix and MAC

## 11. Warranty and Service

### WARRANTY CONDITIONS

The standard warranty is two (2) years from the date of purchase. Power Shield's standard procedure is to replace the original unit with a factory reconditioned unit. Power Shield will ship the replacement unit once the defective unit has been received by the service department, or cross ship upon the receipt of a valid credit card number. The customer pays for shipping the unit to Power Shield. Power Shield pays ground freight transportation costs to ship the replacement to the customer within Australia capital cities metro areas only

### WARRANTY CLAIMS

First please follow the troubleshooting procedure described above. If you are unable to solve your problem then please call 1300-305-393. You will be required to provide the following details  
The model number, serial number, and the date purchase of the UPS. Be prepared to troubleshoot the problem over the telephone with technical support. If unsuccessful the technical support will issue a Returned Material Authorization Number & Warranty Procedure Document. Our technical support personnel will also guide you through the process

## WARRANTY REGISTRATION

### VERY IMPORTANT

In order to validate your warranty it is essential that you register it. Warranties must be registered online

Please register your warranty by visiting

**[www.powershield.com.au](http://www.powershield.com.au)**