

# **F·T**•**N** Powerware

USER GUIDE

# PowerRite XT UPS

400 VA, and 600 VA

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### **Trademarks**

Windows is a registered trademark of Microsoft Corporation.

All other brand and product names are trademarks or registered trademarks of their respective holders.

## **Safety Instructions**

### IMPORTANT SAFETY INSTRUCTIONS! SAVE THESE INSTRUCTIONS!

This User Guide contains important instructions for your PowerRite XT that must be followed during installation and operation of the UPS.



### • CAUTION!

Whenever the unit's On/Off switch is "On," there may be dangerous voltage present at the unit's outlets. This is true because the unit's battery supplies power even if the unit is not plugged into the wall outlet. The unit contains dangerous voltages.

To reduce the risk of electric shock, install the unit in a temperature-controlled and humidity-controlled indoor area free of conductive contaminants. Do not allow liquids or other foreign objects to enter the UPS, or place them near to it.

The power supply cord is intended to serve as the disconnect device. The socket-outlet must be near the equipment and must be easily accessible.

All servicing of this equipment must be performed by qualified service personnel.

There are no user servicable parts within this UPS.

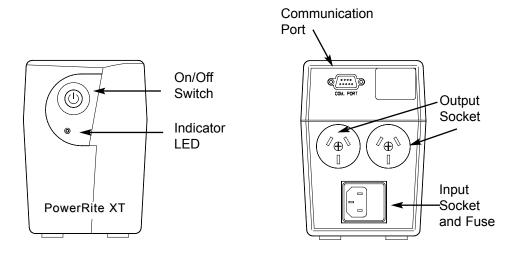
The installation and use of this product must comply with all national, federal, state, municipal, or local codes that apply. For assistance, call Eaton Power Quality Service or your local Eaton Power Quality office.

If the PowerRite XT has been damaged during shipment, call your vendor immediately.

If the PowerRite XT is stored, the batteries should be recharged every 6 months. If stored above 25° Celsius, recharge the batteries more often.

UPS Features 3

The PowerRite XT provides protection against power problems, including power outages, brownouts, and surges. It also provides spike suppression and line noise filtering to protect your equipment. Use the drawings below to identify features of the unit.



## Start Up

- 1 Your PowerRite XT has a removable power cord. Connect the power cord to the back of the unit. Plug the UPS into a wall outlet.
- 2 Let the unit charge the battery for at least 3 hours. You may use the unit while the battery charges, but the battery backup runtime will be reduced until the battery is fully charged. This will take up to 8 hours after a full discharge while the PowerRite XT is fully loaded.
- 3 To start the unit, press the On/Off switch (located in the centre of the front panel). When the unit starts, it will beep and light the front panel LED. The green light should remain on. This indicates normal operation.
- 4 Switch off the equipment you want to protect with battery backup and plug it into the outlets on the rear of the PowerRite XT. This equipment will continue to operate from the battery when the input line fails.
- 5 Switch on the protected equipment, one piece at a time. If the UPS beeps an alarm when you start your equipment, the UPS may be overloaded. See the Troubleshooting section.
- $6^{\text{The PowerRite XT UPS}}$  is equipped with D.C. Start. To start the UPS when AC power is not available, simply press the power switch.

## **Troubleshooting**

If you have a question or problem, the troubleshooting table may help. (See Table 1.) If you need assistance, phone Eaton Power Quality Service or your local Eaton Power Quality Customer Service office. Please have the model number and serial number (located on the rear of the unit) available. If the unit must be returned, Eaton Power Quality will give you a Return Authorization (RA) number. Phone Eaton Power Quality for an RA number before returning the unit for any reason.

**Table 1: Troubleshooting** 

Problem	Possible Reasons	What To Do
No LED display on the front panel	Missing battery     Battery defect	Charge battery up to 8 hours     Replace with the same type of battery
Alarm buzzer beeps continuously when AC supply is normal.	Overload of the UPS	Verify that the load matches the UPS capability specified in the specifications
When power fails, backup time is shortened	Overload of the UPS     Battery voltage is too low     Battery defect due to high temperature operation environment, or improper operation to battery	Remove some noncritical load     Charge battery 8 hours or more     Replace with the same type of battery
Mains normal but LED is flashing	Fuse is blown     Power cord is loose	Replace the same type of fuse     Reconnect the power cord properly

## **Eaton Power Quality**

## National Service & Repair Centre

Phone: 1300 303 059

### **Communication Port**

Your PowerRite XT is equipped with a communication port, for use with LanSafe interfacing software, and a cable. Further information is available on the LanSafe CD.

## **Specifications**

Model		PRXT-0400A	PRXT-0600A	
Capacity	VA/Watts	400VA/240W	600VA/360W	
Input	Voltage Voltage Range Frequency	240VAC 170-280VAC 47-63 Hz (auto detection)		
Output	Voltage Voltage Regulation (Batt. Mode) Frequency Frequency Regulation (Batt. Mode) Output Waveform	230VAC ±10% 50 Hz ±1 Hz Modified Sinewave		
Battery	Battery Type Backup Time Recharge Time	Sealed Lead Acid Battery, Maintenance Free 6 mins at half load   10 mins at half load 8 hours to 90% after complete discharge		
Transfer Time	Typical	10ms max.		
Indicator	AC Mode Backup Mode	Green LED Green Flashing LED		
Audible Alarm	Backup Mode Battery Low Overload	Beeps every 10 seconds Beeps every 1 second Beeps every 0.5 second		
Protection		Discharge, Overcharge and Overload protection		
Physical	Dimensions (mm)	330 D x 100 W x 140 H		
Weight	Net Weight (kg)	5	6	
Environment	Operating Environment Noise Level	0-40°C, 0-90% relative humidty (non-condensing) Less than 40dBA		
Interface	Open Collector	Supports Windows 98/NT/2000, Novell and Linux		

Warranty 6

This Warranty is subject to Eaton Power Quality Pty Ltd (EPQ) standard Conditions of Sale which govern all sales of products by Eaton Power Quality Pty Ltd.

- The PowerRite XT UPS is warranted against failure due to faulty materials and/or workmanship for a period of 24 months from despatch date (ex EPQ store) as per invoice
- 2. If, within the applicable Warranty period, any EPQ product does not meet the warranty specified above, and the product was installed and operated in accordance with Australian standards and EPQ standard installation procedures, EPQ shall thereupon correct any defects due to faulty materials and/or workmanship.
- 3. Any modifications made to the product other than those made by EPQ or its authorised representative may cause the Warranty to be void.
- 4. The Warranty covers repair or replacement of defective parts at the factory, or other service locations as nominated by EPQ.
- 5. Units returned for in-warranty repairs, which are found not to be defective, will be subject to an inspection and handling charge, plus transportation charges. Units returned for warranty must be freight pre-paid and accompanied by a Return Authorisation Number, available from our Service Department.
- EPQ reserves the right to charge for replacement batteries, if within the one year guarantee period replacement batteries are necessary as a result of misuse or misapplication by the purchaser or end user.

## SAVE TIME!

REGISTER YOUR WARRANTY ON LINE at

www.powerware.com.au

# Register your warranty on line at www.powerware.com.au within 30 days and receive the

# Five-Year Pro-Rated Warranty and \$50,000 Load Protection Guarantee Absolutely FREE!

#### **Disclaimers**

The warranties and guaranties below, together with Powerware's Two-Year Limited Warranty, are exclusive and in lieu of all other express and implied warranties whatsoever, including but not limited to implied warranties of merchantability and fitness for particular purpose.

Powerware shall not be subject to any disclaims: 1) Any other obligations or liabilities arising out of breach of contract or of warranty, 2) Any obligations whatsoever arising from tort claims (including negligence and strict liability) or arising under other theories of law with respect to products sold by Powerware, or any undertakings, acts or omissions relating thereto, and 3) All consequential, incidental, and contingent damages whatsoever.

# Extended Five-Year Pro-Rated Warranty and Computer/Load Protection Guarantee

Applies *only* to original purchasers for end use in Australia &New Zealand who file the Warranty Registration Card on line within 30 days of purchase.

In addition to its standard Two-Year Limited Warranty and \$50,000 Computer/Load Protection Guarantee below, Powerware further warrants its UPS will have a service life of five years from the date of shipment from Powerware's factory when used in accordance with the storage, handling, installation, operation, and maintenance procedures prescribed in the following section of this warranty and in the Operator's Manual. "Service life" means the UPS' ability to deliver at least 80% of it original rated backup time.

If Powerware finds that any UPS has not provided the five-year warranted service life, Powerware will, as its sole obligation and the user's sole remedy for breach of this warranty, repair or replace the unit, at its option, F.O.B. Powerware Corporation's factory, for a charge pro-rated on the following basis. The user will be allowed a credit against the list price of equivalent equipment at the time of return to Powerware, in proportion to the percentage of the warranted service life remaining at the time of return to Powerware Corporation. (In calculating the available credit, the remaining warranted service life will be rounded up or down to the nearest whole year.) The user will be responsible to pay the balance of the list price of equivalent equipment; and Powerware reserves the right to require payment prior to delivery of the repaired or replacement equipment.

Powerware's complete warranty responsibilities are therefore summarized as follows:

Years 1-2 - Unit Repaired or Replaced Free of Charge

Years 3-5 - Credit (\$) = Current List Price X

Years of Unexpired Life
5 Years of Warranted Life

### Required Operating Conditions and Extended Five-Year Pro-Rated Warranty Exclusions

- 1. If you plan to store the UPS or battery cabinets prior to use, store them in a cool, dry environment. Storage temperature should not exceed 95°F (35°C) in order to preserve battery life. For longer term storage, energize the UPS and battery cabinet for approximately 8 hours every 90 days in order to maintain battery charge. Whenever the units are not energized, verify that the circuit breaker on all battery cabinets is returned to the OFF (O) position.
- 2. Average annual temperature at equipment site shall not exceed 77°F (25°C).
- 3. The above warranty does not apply to units with broken or damaged enclosures, input cables or out put receptacles, or to units that have been frozen or damaged due to neglect, accident, or abuse such as fire, flooding, explosives, or exposure to weather conditions.
- 4. The above warranty also does not apply to units that have been improperly installed, altered, or tampered with in any way, or if the equipment was not used under normal operating conditions and in accordance with labels and instructions.

### **Extended Five-Year Pro-Rated Warranty Claims Procedure**

Powerware will not accept any product for return, credit, or exchange unless expressly authorized by Powerware in writing and delivered to F.O.B. Powerware's factory. Nor will Powerware be responsible for any charges for testing, checking, removal, or installation of a warranted UPS or component part of a UPS.

All defective UPS units and parts, when returned and replaced, become the property of Powerware.

This warranty applies only to the original end user of the equipment and is nontransferable.

#### \$50,000 Computer/Load Protection Guarantee

For the lifetime of the original purchaser who has filed the Warranty Registration, Powerware promises to repair or replace (at Powerware's option) equipment (valued up to \$50,000) that is damaged by an AC power line surge, spike, or other transient when properly connected to Powerware's UPS (reimbursement for or restoration of data loss excluded). This guarantee applies only in all of the following circumstances:

- The UPS is plugged in to properly grounded and wired outlets using no extension cords, adapters, other ground wires, or other electrical connections.
- The installation of the UPS complies with all applicable electrical and safety codes described by the AS/NZ Standards.
- The UPS was used under normal operating conditions and in accordance with all labels and instructions.
- 4. The UPS was not damaged by accident (other than AC power line transient), misuse, or abuse.

## **Standard Warranty Registration**

Please complete this form, photocopy and mail to Eaton Power Quality Pty Ltd, 13 Healey Road Dandenong Victoria 3175 Australia

or register online at

## www.powerware.com.au

UPS	S Model Number: UPS Serial Number:
Dat	e of Purchase: Contact Person:
Cor	npany/Organisation:
Ado	lress:
City	y: State: Postcode:
Tele	ephone: Fax:
Ema	ail:
1.	Where did you purchase this Powerware UPS from?
	□Retail Store □Computer Store □EPQ Distributor □Direct from EPQ
	□Electrical Wholesaler □Internet □Other
2.	Why did you purchase a Powerware UPS (check all that apply)?
	□Recommendation □Reputation □After Purchase Support □Features
	□Price □Other
3.	What features of a UPS are important to you?
	□Appearance □Front Panel Display □Backup Time □RS232
	□Communications □UPS Management Software □Other
4.	Please specify the equipment being protected by your Powerware UPS?.
	Brand Model Operating System
5.	Would you like information about EPQ Extended Warranty?
	□Yes □No

## Eaton Power QualityAustralia/New Zealand Offices

### Head Office - Sydney

Eaton Power Quality Pty Ltd

119-127 Wicks Road

North Ryde NSW 2113

Phone: 61-2-9878 5000 Fax: 61-2-9887 2186

National Service and Repair Centre: 1300 303 059

### **Customer Service Offices**

Adelaide

PO Box 481, Marlestone Business Centre

SA 5033

Phone: 08-8347-3622 Fax: 08-8445-6328

#### Brisbane

Unit 4, 11 Donkin Street West End, QLD 4101 Phone: 07-3891-1211 Fax: 07-3891-2492

### Melbourne

13 Healey Road

Dandenong VIC 3175 Phone: 03-9706 5662

Fax: 03-9794 9150

#### Perth

Unit 2, 23 Geddes Street

Balcatta, WA 6021 Phone: 08-9240 5655 Fax: 08-9240 5644

New Zealand PO Box 39-572

Howick 1730 Auckland NZ

Phone: 64-9-535 3084 Fax: 64-9-535 3083