

EATON Powerware ePDU™

This unit that this leaflet accompanies has been certified in accordance with UL60950-1 & CAN/CSA C22.2 No 60950-1-03

The maximum product and receptacle/circuit ratings are as listed in the table below.

INPUT SUPPLY	INPUT PLUG	MAXIMUM INPUT CURRENT	MAXIMUM CIRCUIT LOAD CURRENT*	OUTPUT RECEPTACLE TYPE	OUTPUT CURRENT PER RECEPTACLE*
120V	L5-20	16A	16A	5-15/20	120V/16A
208V	L6-20	16A	16A	C13 C19	208V/10A 208V/16A
120V	L5-30	24A	24A	5-15/20	120V/16A
208V	L6-30	24A	24A	C13 C19	208V/10A 208V/16A
120/208V	L14-30	24A	12A	5-15/20 C13 C19	120V/16A 208V/10A 208V/16A
120/208V 3PH	L21-20	16A	9.2A**	5-15/20 C13 C19	120V/16A 208V/10A 208V/16A
120/208V 3PH	L21-30	24A	13.9A**	5-15/20 C13 C19	120V/16A 208V/10A 208V/16A

Table 1.

Maximum input voltage 250V
 Input frequency 50/60Hz

* Where UL489 branch circuit breakers are fitted, the maximum circuit ratings will be as shown below. Individual socket output current should be kept at or below this rating and the overall circuit rating should not exceed this limit. This is to comply with 80% branch circuit NEC regulations.

15A Circuit Breaker	12A Maximum Branch Load
20A Circuit Breaker	16A Maximum Branch Load

** Note that for 3 phase systems, the maximum circuit load current must be kept at or below the value specified in Table 1 to keep the input currents within accepted limits.

Where no ammeter is supplied with the product, it is important to ascertain that the design current per circuit does not exceed the maximum ratings defined in Table 1. This will ensure that a load current greater than that specified does not occur at the input. Connected equipment load values may be obtained from equipment rating labels and equipment literature.

Maximum recommended Ambient temperature (T_{mra}): 40°C

Elevated operating ambient Temperature: If equipment is installed in a closed or multi-unit enclosure ensure that the internal temperature within the enclosure does not exceed the T_{mra} stated above.

Air flow: Ensure there is adequate air-flow around the equipment when installed in a multi-unit enclosure environment.

Ammeter and load balancing

Products PWxxxMOxxxxx contain an RS-232 serial port (RJ45 Connector) for remote monitoring of the ammeter

Single CT Ammeters will monitor the **input** current. Products with multiple CT's will monitor either **input** or **output** circuits. Refer to product labeling for more information.

For multi-circuit ammeters in Auto mode the ammeter will scroll to display each measured circuit in turn. Press the "M" button on the ammeter display to put the ammeter into "Manual" mode.

Use the scroll UP/DOWN buttons to select the **circuit** being displayed. Display will show a sequence of digits from 1 up to a maximum of 8 depending on the number of CT's installed in the product.

Refer to the product labeling for CT monitoring input and output circuits and maximum ratings.

Connect equipment to the power receptacles of this power strip such that load is distributed evenly between the **output** circuits. The equipment load limit on each **output** circuit is limited to the limits specified in Table 1.

Further information about the operation of the multi-circuit ammeter and RS-232 communications is in the rPower user guide available at www.apheltechnologies.com/support.htm

FCC Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential environment may cause harmful interference.

Inspection

Inspect the product before installation. If product is damaged in any way, please contact the supplier.

Installation

The product is intended for integration into an Information Technology equipment enclosure.

A fixing kit is supplied comprising of a variety of fasteners. The installer may use the fixings supplied, or others of choice, to mount the product.

When running the supply cable within the enclosure, ensure that the cable is adequately supported to avoid damage to the cable, and excessive strain on the cable gland.

Important notes

The installation socket outlet used for the power supply to this equipment must be installed near the equipment and must be easily accessible.

When installing this product, it is essential that the distribution circuit supplying the product is protected by a branch circuit protection device with a maximum rating of 20A or 30A to match the current rating of the input plug as defined in Table 1 above.

SYSTEMS SHOULD ONLY BE CONFIGURED BY A COMPETENT PERSON.

This power distribution unit is intended for power supply provision to equipment only. Secondary (Satellite) power strips shall not be connected to the receptacles.

IT IS ESSENTIAL THAT THIS EQUIPMENT IS CONNECTED TO AN ELECTRICAL SUPPLY THAT HAS A PROTECTIVE GROUND CONDUCTOR

- WARNING: TO ISOLATE THIS EQUIPMENT DISCONNECT POWER SUPPLY PLUG.**
- ATTENTION: AFIN D'ISOLER TOTALEMENT CET APPAREIL DEBRANCHER FICHE D'ALIMENTATION.**
- CAUTION: USE ONLY IN DRY LOCATIONS.**
- ATTENTION: UTILISER UNIQUEMENT DANS DES EMPLACEMENTS SECS.**

THE INFORMATION GIVEN IN THIS LEAFLET IS SUBJECT TO CHANGE WITHOUT NOTICE. ANY GUIDANCE NOTES GIVEN WITH REGARDS TO COMPLYING WITH SPECIFIC STANDARDS ARE PROVIDED AS AN AID TO THE INSTALLER AND ARE INTERPRETATIONS OF THOSE STANDARDS ONLY.

THESE INSTRUCTIONS ARE PRIMARILY INTENDED TO PROVIDE DETAILS ON THE SAFE USE AND INSTALLATION OF THE ABOVE MAINS DISTRIBUTION SYSTEM.

This product has been designed to conform to the latest safety requirements. In addition to compliance with standards for general use, it has been factory configured for use in enclosure mounting environments aiding the installer to provide systems compliant with relevant standards.

Two-Year Limited Warranty (US and Canada)

Powerware Enclosure Based Power Distribution Units (ePDUs™)

WARRANTOR: The warrantor for the limited warranties set forth herein is Eaton Electrical Inc., a Delaware Corporation company (“Company”).

LIMITED WARRANTY: This limited warranty (this “Warranty”) applies only to the original End-User (the “End-User”) of any Powerware-branded Enclosure Based Power Distribution Units (the “Product”) purchased on or after June 1, 2004 and cannot be transferred. This Warranty applies even in the event that the Product is initially sold by Company for resale to an End-User.

LIMITED WARRANTY PERIOD: The period covered by this Warranty for the Product installed [and currently located] in the fifty (50) United States, the District of Columbia, and Canada is twenty-four (24) months from the date of purchase.

WHAT THIS LIMITED WARRANTY COVERS: The warrantor warrants that the Product (the “Warranted Item”) is free from defects in material and workmanship. If, in the opinion of Company, a Warranted Item is defective and the defect is within the terms of this Warranty, Company’s sole obligation will be to repair or replace such defective Warranted Item (including by providing service, parts and labor, as applicable), at the option of Company.

PROCEDURES FOR REPAIR OR REPLACEMENT OF WARRANTED ITEMS: The Warranted Item will be repaired or replaced at a Company site or such other location as determined by Company.

If the Warranted Item is to be replaced by Company, and the End-User supplies a credit card number or purchase order for the value of the replacement Product, Company will use commercially reasonable business efforts to ship (via standard ground shipment and at no cost to the End-User) the replacement Warranted Item to the End-User within one (1) business day after Company receives notice of the warranty claim. In such case, the End-User must return (at Company’s expense) the defective Warranted Item to Company in the same packaging as the replacement Warranted Item received by the End-User or as otherwise instructed by Company. If Company does not receive the defective Warranted Item, Company will either charge the End-User’s credit card, or send the End-User an invoice (which the End-User agrees to pay), for the value of the replacement Product.

If the Warranted Item is to be replaced by Company, but the End-User is unwilling or unable to supply a credit card number or purchase order for the value of the replacement Product, Company will use commercially reasonable business efforts to ship (via standard ground shipment and at no cost to the End-User) the replacement Warranted Item to the End-User within one (1) business day after Company receives the defective Product from the End-User.

In any case, Company will provide shipping instructions and will pay its designated carrier for all shipping charges for return of defective equipment and replacement of Warranted Items. Any returned Warranted Item or parts that are replaced may be new or reconditioned. All Warranted Items returned to Company and all parts replaced by Company shall become the property of Company.

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WHAT THIS LIMITED WARRANTY DOES NOT COVER: This Warranty does not cover any defects or damages caused by: (a) failure to properly store the Product before installation; (b) shipping and delivery of the Product if shipping is FOB Factory; (c) neglect, accident, abuse, misuse, misapplication, or incorrect installation; (d) repair or alteration not authorized in writing by Company personnel or performed by an authorized Company Customer Service Engineer or Agent; (e) improper testing, operation, maintenance, adjustment, or modification of any kind not authorized in writing by Company personnel or performed by an authorized Company Customer Service Engineer or Agent; or (f) use of the Product under other than normal operating conditions or in a manner inconsistent with the Product's labels or instructions.

This Warranty is not valid if the Product's serial numbers have been removed or are illegible. Any Warranted Items repaired or replaced pursuant to this Warranty will be warranted for the remaining portion of the original Warranty subject to all the terms thereof.

Company shall not be responsible for any charges for testing, checking, removal or installation of Warranted Items.

COMPANY DOES NOT WARRANT EQUIPMENT NOT MANUFACTURED BY COMPANY. IF PERMITTED BY THE APPLICABLE MANUFACTURER, COMPANY SHALL PASS THROUGH SUCH MANUFACTURER'S WARRANTIES TO END-USER.

COMPANY DOES NOT WARRANT SOFTWARE (IF APPLICABLE TO THE PRODUCT), INCLUDING SOFTWARE EMBEDDED IN PRODUCTS, THAT IS NOT CREATED BY COMPANY. WITHOUT LIMITING THE FOREGOING, COMPANY SPECIFICALLY DOES NOT WARRANT SOFTWARE (SUCH AS LINUX) THAT WAS CREATED USING AN "OPEN SOURCE" MODEL OR IS DISTRIBUTED PURSUANT TO AN OPEN SOURCE LICENSE. THIS WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY OFFERED BY COMPANY WITH RESPECT TO THE PRODUCTS AND SERVICES AND,

EXCEPT FOR SUCH FOREGOING WARRANTY COMPANY DISCLAIMS ALL OTHER WARRANTIES INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, TITLE, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE. CORRECTION OF NON-CONFORMITIES IN THE MANNER AND FOR THE PERIOD OF TIME PROVIDED ABOVE SHALL CONSTITUTE COMPANY'S SOLE LIABILITY AND END-USER'S EXCLUSIVE REMEDY FOR FAILURE OF COMPANY TO MEET ITS WARRANTY OBLIGATIONS, WHETHER CLAIMS OF THE END-USER ARE BASED IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY), OR OTHERWISE.

LIMITATION OF LIABILITY: The remedies of the End-User set forth herein are exclusive and are the sole remedies for any failure of Company to comply with its obligations hereunder. In no event shall Company be liable in contract, in tort (including negligence or strict liability) or otherwise for damage to property or equipment other than the Products, including loss of profits or revenue, loss of use of Products, loss of data, cost of capital, claims of customers of the End-User or any special, indirect, incidental or consequential damages whatsoever. The total cumulative liability of Company hereunder whether the claims are based in contract (including indemnity), in tort (including negligence or strict liability) or otherwise, shall not exceed the price of the Product on which such liability is based.

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Company shall not be responsible for failure to provide service or parts due to causes beyond Company's reasonable control.

END-USER'S OBLIGATIONS: In order to receive the benefits of this Warranty, the End-User must use the Product in a normal way; follow the Product's user's guide; and protect against further damage to the Product if there is a covered defect.

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OTHER LIMITATIONS: Company's obligations under this Warranty are expressly conditioned upon receipt by Company of all payments due to it (including interest charges, if any). During such time as Company has not received payment of any amount due to it for the Product, in accordance with the contract terms under which the Product is sold, Company shall have no obligation under this Warranty. Also during such time, the period of this Warranty shall continue to run and the expiration of this Warranty shall not be extended upon payment of any overdue or unpaid amounts.

COSTS NOT RELATED TO WARRANTY: The End-User shall be invoiced for, and shall pay for, all services not expressly provided for by the terms of this Warranty, including without limitation, site calls involving an inspection that determines no corrective maintenance is required. Any costs for replacement equipment, installation, materials, freight charges, travel expenses or labor of Company representatives outside the terms of this Warranty will be borne by the End-User.

OBTAINING WARRANTY SERVICE: In the USA, call the Customer Reliability Center 7x24 at 800-356-5737. Outside of the USA, contact your local Powerware product sales or service representative, or call the Customer Reliability Center in the USA at 919-870-3149. For comments or questions about this Warranty, write to the Customer Quality Representative, 3301 Spring Forest Road, Raleigh, North Carolina 27616 USA.

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