

A Benny Lee Company

PRODUCT USER GUIDE

HE1U-548

High Efficiency 1U AC to DC Power Supply

Owners Guide

(These instructions are intended for use by a technician familiar with electronic products)

- Autorange Input Voltage 85 to 264 VAC
- Remote control ON/OFF
- DC-OK TTL signal
- Short Circuit / Overload / Over Voltage / Over Temperature Protection
- 3 year warranty



DESCRIPTION

The HE1U-548 is a Heavy Duty AC to DC 300 Watt Power Supply in a 1U chassis. The HE1U-548 comes with power factor correction, and four layers of protection against overload, over voltage, over temperature, and short circuit. The internal power supply has remote control and DC-OK connected to the HE1U-548 rear terminal strip. The HE1U-548 comes with a 3 year warranty.

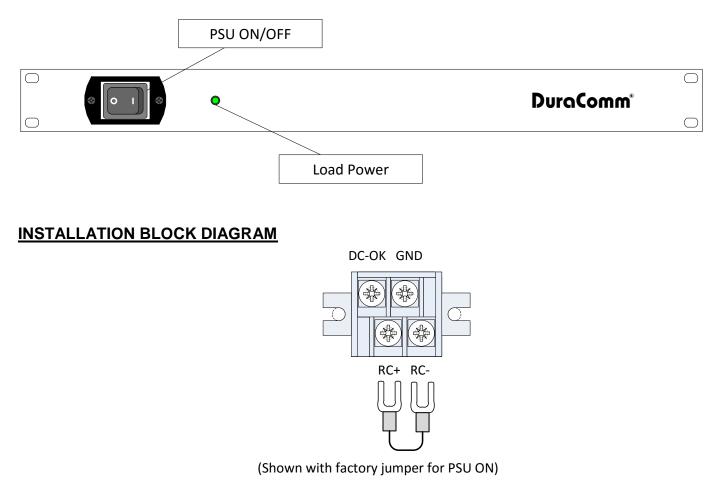
SPECIFICATIONS

| Output Voltage | |
|----------------------------------|---------------------------------|
| Output Voltage Tolerance | +/- 1 % |
| Output Amperage | |
| Maximum Power, continuous | |
| Maximum Ripple and Noise | |
| Input Voltage | |
| Input Frequency Range | |
| Maximum AC Current | |
| Typical Efficiency | |
| Max Inrush Current, single cycle | |
| Short Circuit Protection | Constant Current Limiting |
| Overload Protection (operates) | typical 105-135 % |
| Line Regulation | +/- 0.2 % |
| Load Regulation | +/- 0.5 % |
| Fan Control | |
| Over Temperature | |
| Rise Time following ON | |
| Hold Time following OFF | |
| Working Temperature Range | |
| Storage Temperature | 40 F to +185 F (-40 C to +85 C) |
| Withstand Voltage | |
| Dimensions | |
| Weight | 5.1 lbs |
| | |

INSTALLER NOTES

NOTE: DO NOT block any of the cooling vents on the sides and top and always allow adequate ventilation by not installing the unit inside tightly closed spaces. Physical mounting position is not critical but the cooling vents must not be blocked. **NOTE:** The outputs are **NOT** referenced to the chassis. **The Modular System can be used either positive or negative ground.**

FRONT PANEL LAYOUT



HE1U-548 Remote Control and DC-OK

| Between RC- and RC+ | Output Status |
|---------------------|---------------|
| Short, or 0-0.8VDC | PSU OFF |
| Open, or 4-10 VDC | PSU ON |

| Between DC-OK and GND | Output Status |
|--------------------------|---------------|
| 0 to 1 V or TTL Low | PSU OFF |
| 3.3 to 5.6 V or TTL High | PSU ON |

CONDUCTOR PRETREATMENT

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All kinds of copper conductors can be clamped without treatment. DO NOT solder tin stranded conductors. The solder yields and fractures under high pressure. The result is increased contact resistance and excessive temperature rise. Additionally, corrosion has been observed due to the fluxes. Notch fractures at the transition from the rigid tinned part to the flexible conductors are also possible. Ferrules can be used as a protection when wiring stranded conductors. Copper ferrules prevent the current transfer from being influenced by dissimilar metals and remove the risk of corrosion. Always use the correct tool to crimp the ferrule.

RECOMMENDED COPPER WIRE SIZE FOR CURRENT CAPACITY

| Current Level in Amperes | Wire Size |
|--------------------------|----------------------|
| <7 AMPERES | 20 AWG Up to 5 feet |
| | 18 AWG Up to 10 feet |
| 14 AMPERES | 18 AWG Up to 5 feet |
| | 16 AWG Up to 10 feet |
| 20 AMPERES | 16 AWG Up to 5 feet |
| | 14 AWG Up to 10 feet |
| 30 AMPERES | 14 AWG Up to 5 feet |
| | 12 AWG Up to 10 feet |
| 40 AMPERES | 12 AWG Up to 5 feet |
| | 10 AWG Up to 10 feet |
| 50 AMPERES | 10 AWG Up to 5 feet |
| | 8 AWG Up to 10 feet |
| 70 AMPERES | 8 AWG Up to 5 feet |
| | 6 AWG Up to 10 feet |
| 100 AMPERES | 6 AWG Up to 5 feet |
| | 4 AWG Up to 10 feet |

(Insulated Wire, Single Conductor in free air)

LIMITED WARRANTY

DuraComm warrants to the initial end user, each power supply manufactured by DuraComm to be free from defects in material and workmanship, when in normal use and service for a period of three years from the date of purchase, from an authorized DuraComm dealer.

Should a product manufactured by DuraComm fail or malfunction due to manufacturing defect, or faulty component, DuraComm, at its option, will repair or replace the faulty product or parts thereof, which, after examination by DuraComm, prove to be defective or not operational according to specifications in effect at the time of sale to the initial end user. The product that is replaced or repaired under the provisions of this warranty, will be warranted for the remainder of the original warranty period, only, and will not extend into a new three year warranty period.

The limited warranty does not extend to any DuraComm product which has been subject to misuse, accidental damage, neglect, incorrect wiring not associated with manufacture, improper charging voltages, or any product which has had the serial number removed, altered, defaced, or changed in any way.

DuraComm reserves the right to change, alter, or improve the specifications of its products at any time, and by so doing, incurs no obligation to install or retrofit any such changes or improvements in or on products manufactured prior to inclusion of such changes.

DuraComm requires any product needing in or out of warranty service to be returned to DuraComm. All requests for warranty service must be accompanied by proof of purchase, such as bill of sale with purchase date identified. DuraComm is not responsible for any expenses or payments incurred for the removal of the product from its place of use, transportation or shipping expenses to the place of repair, or return expenses of a repaired or replacement product to its place of use.

The implied warranties which the law imposes on the sale of this product are expressly LIMITED, in duration, to the three (3) year time period specified herein. DuraComm will not be liable for damages, consequential or otherwise, resulting from the use and operation of this product, or from the breach of this LIMITED WARRANTY.

Some states do not allow limitations on the duration of the implied warranty or exclusions or limitations of incidental or consequential damages, so said limitations or exclusions may not apply to you. This warranty gives you specific legal rights which vary from state to state.

This warranty is given in lieu of all other warranties, whether expressed, implied, or by law. All other warranties, including WITHOUT LIMITATION, warranties of merchantability and fitness or suitability for a particular purpose, are specifically excluded. DuraComm reserves the right to change or modify its warranty and service programs without prior notice.

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