

PRODUCT USER GUIDE

HE1U-10012

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 90 to 264 VAC
- DC-OK TTL Signal for each Module
- Short Circuit / Overload / Over Voltage / Over Temperature Protection
- 3 year warranty



DESCRIPTION

The HE1U-10012 is a Heavy Duty AC to DC 1400 Watt Power Supply in a 1U chassis. The HE1U-10012 comes with power factor correction, and four layers of protection against overload, over voltage, over temperature, and short circuit. The HE1U-10012 has DC-OK for each module connected to the rear terminal strips. The HE1U-10012 comes with a 3 year warranty.

SPECIFICATIONS

Output Voltage	13.8.VDC
Output Voltage Output Voltage Tolerance	+/- 1 %
Output Amperage	
Maximum Power, continuous	
Maximum Ripple and Noise	
Input Voltage, Switch Selectable	
Input Frequency Range	47-63 Hz
Maximum AC Current	
Typical Efficiency	
Max Inrush Current, single cycle	
Short Circuit Protection	
Overload Protection (operates)	
Line Regulation	
Load Regulation	
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 3 KVAC @ 10 ma (I/P-O/P)/1 min, 2 KVAC @ 1	
Dimensions	
Weight	11 lbs.

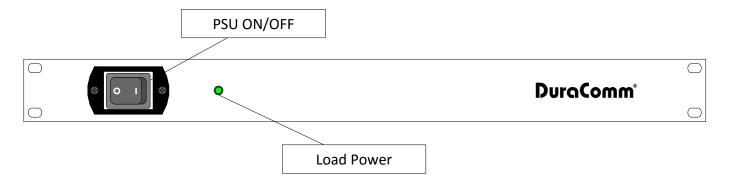
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INSTALLER NOTES

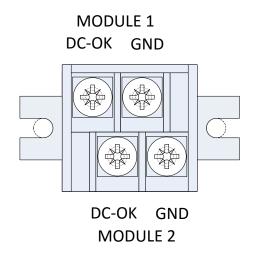
NOTE: DO NOT block any of the cooling vents on the sides and top and always allow adequate ventilation by not installing the unit inside tightly closed spaces. Physical mounting position is not critical but the cooling vents must not be blocked.

NOTE: The outputs are NOT referenced to the chassis. The Modular System can be used either positive or negative ground.

FRONT PANEL LAYOUT



INSTALLATION BLOCK DIAGRAM



HE1U-10012 DC-OK

Between DC-OK and GND (TTL Output)	Output Status
0 to 1 V	PSU ON
3.3 to 5.6 V	PSU OFF
May Also be used Open-Collector	10 mA max, 5.6 V max

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CONDUCTOR PRETREATMENT

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

(Insulated Wire, Single Conductor in free air)

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

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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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