

PRODUCT USER GUIDE

LPHP-1048

Desk Top Power Supply Owners Guide

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

- LPH "Hoods" fit ALL models
- Adjustable DC output voltage
- Input Voltage 90-264 VAC, 47-63 Hz, or 120-370 VDC Automatic
- Power Correction Factor of .98 saves 25% of electrical Cost
- Includes in-rush current limiting
- Short circuit/over load/ over temperature protection
- Fan Cooling
- Heavy Duty Post Output Connectors
- 3 year warranty



DESCRIPTION

The LPHP-1048 is a desktop power supply that comes with adjustable DC output voltage and a power connection factor of .98, which saves 25% of electrical cost. All LPHP series comes with a short circuit/over load/ over temperature protection and a cooling fan that helps flow air throughout the unit.

SPECIFICATIONS

Output	
Voltage	48 VDC
Output Adjustment Range	41-56 VDC
Output Voltage Tolerance	+/- 1 pct
Output amperage, max continuous (w/180 – 260 VAC input)	10 Amps @ 48 VDC
Maximum Power, continuous	
Maximum ripple and noise	200mV p-p max
Input voltage range (auto-ranging)	90-260 VAC
Input frequency range	47-63 Hz
Maximum AC current	7 A/120 VAC; 3.5 A/240 VAC
Typical Efficiency	
Maxin rush current, single cycle	
Short Circuit protection	
Overload Protection (operates)	
Line Regulation	
Load Regulation	
Fan Control	
Over Temperature	>195 F (90 C) auto output shutdown
Rise Time following ON	50 mS
Hold Time following OFF	15 mS
Working Temperature range	
Storage Temperature	
Withstand Voltage*	
(Continued)	
Dimensions	
Weight	7 lbs, nominal

INSTALLATION WARNING

The individual user should take care to determine, prior to use or installation, whether this device is suitable, adequate or safe for the use intended. Since individual applications are subject to great variation, DuraComm makes no representation or warranty as to the merchantability, suitability or fitness of these units for any specific application.

The precision regulated power supplies operate internally from voltages in excess of 300 volts. In rare cases, voltage spikes or transients on the AC power line, or over heating, may cause a component failure in the power supply. Overloading the output will cause the over current feature to operate. In either case, the cause must be determined and corrected. Failures require investigation as to cause and/or repair of the unit.

THERE ARE NO USER SERVICEABLE PARTS INSIDE. HAZARDOUS VOLTAGES EXIST INSIDE THE UNIT. SERVICE AND REPAIR MUST BE REFERRED TO QUALIFIED FACTORY PERSONNEL.

INSTALLER NOTES

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

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

CONDUCTOR ATTACHMENT

The DC output terminals have 6mm diameter holes and a $\frac{1}{2}$ inch ring terminal will fit exactly. The $\frac{1}{2}$ inch ring terminal may be crimped or soldered to the conductors before attaching to the DC output terminals. DO NOT solder the ring terminals while on the DC output studs. Use a 10 mm wrench to securely tighten the hex nut on the stud.

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

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 year 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.

DuraComm® Corporation

6655 Troost Avenue Kansas City, MO 64131 Phone (816) 472-5544 Fax (816) 472-0959 www.duracomm.com