

A Benny Lee Company

PRODUCT USER GUIDE

RMSL-8012

AC to DC Power Supply

Owners Guide

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

- Input voltage 88~132 / 176~264 VAC switch selectable
- Short circuit/overload/ over voltage/ over temperature protections
- Build-in EMI filter
- Soft start with limiting AC surge current
- Approvals: UL (Modules)
- 3 year warranty



DESCRIPTION

The RMSL-8012 is an AC to DC power supply that has an 80 amps max load and switch selectable AC input voltage. All RMSL modules have build-in EMI filter and hold UL approvals.

SPECIFICATIONS

Output Voltage	
Output Adjustment Range	
Output Voltage Tolerance	
Output amperage, max (@180 – 260 VAC input)	80 Amps
Maximum ripple and noise	150 mV p-p max
Input voltage range (Factory set @ 110 VAC) (switch selectable)	
Input frequency range	
Maximum AC current	
Typical Efficiency	
Max inrush current, single cycle	
Short Circuit protection	Foldback Limiting
Overload Protection (operates)	typical 110-120 pct
Line Regulation	
Load Regulation	
Fan Control	
Over Temperature	>70 C auto output shutdown
Rise Time following ON	50 mS
Hold Time following OFF	15 mS
Working Temperature range	
Storage Temperature	40 - 185 F (-40 - +85 C)
Withstand Voltage*	
(Continued)	500 V @ 10 mA(O/P-FG)/1 min
Dimensions	3.5H x 19W x 4.5D inches, nominal
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 makers 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 12/24/48 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.

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The outputs are NOT referenced to the chassis. The Power Supply can be used either positive or negative ground without any modification.

Allow adequate ventilation by not installing the unit inside tightly closed spaces. Physical mounting position is not critical.

Make certain the input voltage switch is set to the correct voltage BEFORE applying AC power to the Power Supply.

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

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
14 AMFERES	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 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.

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