



A Benny Lee Company

PRODUCT USER GUIDE

RUR-1000-15

Power Supply

Owners Guide

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

- Input voltage 90 ~ 132 / 180 ~ 264 VAC (Factory Set)
- High Power Density (Big Performance in Small Package)
- Remote Sense / On-Off control
- Active Surge Current Limiting
- 3 year warranty



DESCRIPTION

The RUR-1000-15 power supply is a high power density power supply that delivers a big performance for its dimensions and weight. All of the RUR series products come with remote sense with on-off control along with active surge current limiting.

SPECIFICATIONS

Output Voltage.....	13.8 V
Output Adjustment Range	13-15 VDC
Output Voltage Tolerance.....	+/- 1 pct
Output amperage, max (w/180 – 260 VAC input).....	80 A @ 12 VDC
Maximum ripple and noise.....	150 mV p-p max
Input voltage range.....	130/180-260 VAC
Input frequency range.....	47-63 Hz
Maximum AC current.....	17.5 A/120 VAC; 20A/240 VAC
Typical Efficiency.....	80 pct
Max inrush current, single cycle	35 A
Short Circuit protection	Foldback Limiting
Overload Protection (operates)	typical 110-120 pct
Line Regulation.....	50 mV
Load Regulation	100 mV (20-100 pct load)
Fan Control.....	Proportional, load controlled
Over Temperature	>70 C auto output shutdown
Rise Time following ON.....	50 mS
Hold Time following OFF.....	15 mS
Working Temperature range.....	-20 to +60 C
Storage Temperature	-40 - + 85 C
Withstand Voltage*	1.5 KV @ 10 ma(I/P-O/P, I/P-FG)/1 min
(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 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 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.

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.

BATTERY BACK-UP INSTALLATIONS

DuraComm has a battery backup accessory, Model MMBB and MMBC, for the modular-series of power supplies. The MMBB and MMBC provide auto-change to battery power. Model MMBC provides a trickle charge to the battery. Do NOT connect a lead-acid battery directly across the DC output. This may over-charge the battery with resulting out-gassing and loss of electrolyte resulting in failure of the battery.

CONDUCTOR ATTACHMENT

The DC output terminals have 6mm diameter holes and a ¼ inch ring terminal will fit exactly. The ¼ 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)

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

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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