

Negative 48V Output Power Supply System

Product Description



OPR600-48SN Power Supply is a unique and a highly reliable power supply system. Due to its rugged and solid metal design, it is perfectly suited for harsh environments of POE (Power over Ethernet), Industrial, Utility and Telecommunication markets.

The power supplies in the OPR Power Series™ are designed for Universal AC to DC power supply applications. Because of this feature these power supplies can be used anywhere in the world.

The Model OPR600-48SN is a 1U rack mountable power supply. The power supply has an ON/OFF switch, and an associating DC power LED.

Specifications

Electrical

Output Voltage	- 48V DC (negative 48 volt)
Output Ripple	Typical 250mV
Output Current*	Typical 12A max.
Output Power*	Up to 600W continuous
Input Voltage	Universal 85 to 264 VAC, 47 – 63 Hz
Input Protection	AC line Fuse; 250 VAC, 10A
Input Current	<6.5A @ 115 AC, <3.5A @ 230 AC @ full-load



Typical Safety Ratings for internal power module

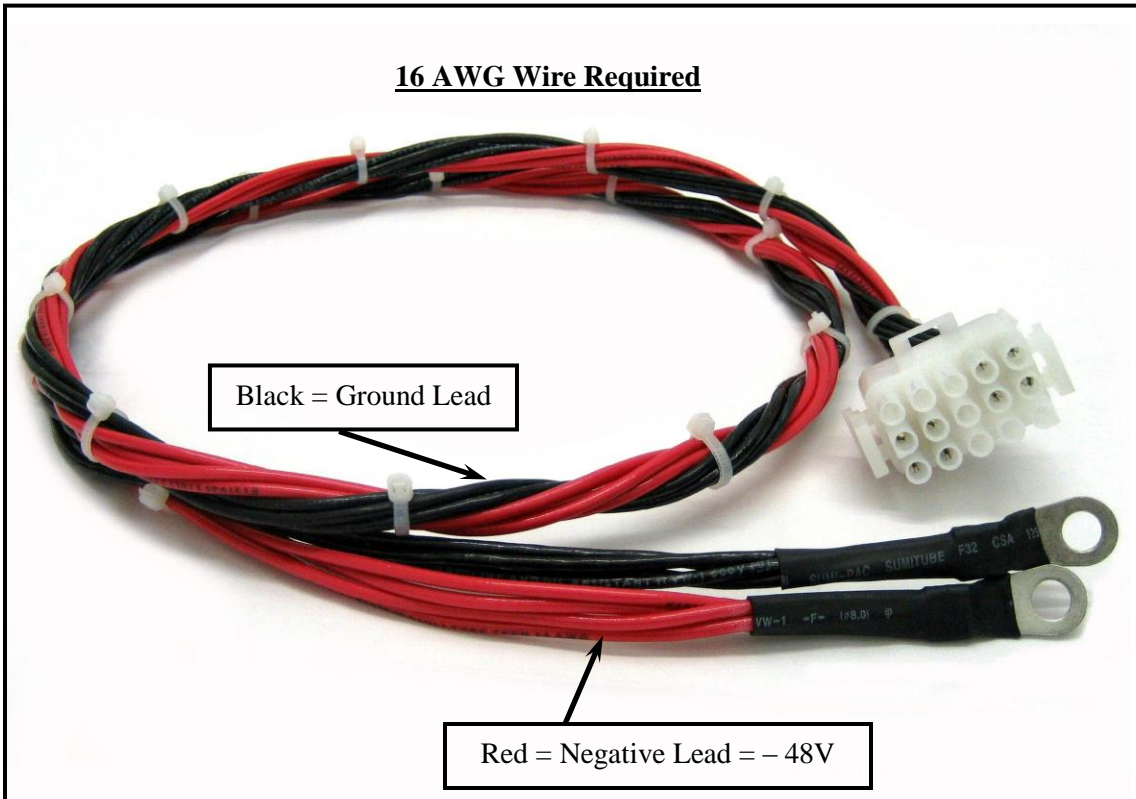
Compliance with	IEC / EN / UL / CSA 60950-1 CE Declaration to Low Voltage Directive 2006/95/EC
EMS	EN61000-4-5 Level 3, EN61000-4-2 Level 2 EN61000-3-2, EN61000-4-2 Level 3 (Air Only) EN61000-4-4 Level 3, EN61000-4-11
Harmonic Distortion	Meets IEC1000-3-2
EMI Filtering	CISPR 11 and 22 FCC Part 15 Class B
MTBF	MIL-STD-HDBK 217E , 200,000 hours @ 25°C, ground benign, Highly Accelerated Life Testing

Environmental

Overload Protection	Auto-recovery
Functional Temperature	0 to 70 °C, rated power to 50°C, derate linearly to 50% at 70°C
Storage Temperature	-50 to 85°C/20-90% RH
Thermal Protection	Auto off; auto reset upon cool down
Efficiency	Up to 92% (MTBF: 200,000 hours @ 25°C)
RoHS	YES (Green Power) RoHS Directive 2011/65/EU
Dimensions	1U (1.75" H x 19" W x 12.12" D)
Approximate Weight	11.55 lb = 5239 g = 184.80 oz

DC Connection Cable

16 AWG Wire Required





Package Content

- **Rack mount Power Supply Model OPR600-48SN**
- **DC Connection Cable**
- **AC Connection Cord**
- **Installation Manual**

LIABILITY

DO NOT OPERATE OR SERVICE THE OPR600-48SN MODEL WITHOUT READING THIS ENTIRE DOCUMENT FIRST

Optimal Power Supplies LLC is not responsible for any kind of damages sustained through the use of this or any other Optimal Power Supplies LLC products. It is entirely the customer's responsibility to take all the necessary precautionary measures when installing this unit.

In the interest of improving internal design, operational function, and/or reliability, Optimal Power Supplies LLC reserves the right to make changes to the products described in this document without notice.

WARRANTY

1. Optimal Power® warrants its product model OPR600-48SN against defects in materials and workmanship for One (1) year from date of delivery. We will repair, or replace parts which prove to be defective during the warranty period.
2. Any defect discovered after the warranty period has expired will be deemed to be outside the coverage of the warranty, as noted below:

“THIS EXPRESS WARRANTY SUPERSEDES AND IS IN LIEU OF ALL REMEDIES AND WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, AND LIABILITY FOR NEGLIGENCE. IN NO EVENT SHALL SELLER OR ITS DISTRIBUTORS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL LOSSES, EXPENSES OR DAMAGES”.

3. Optimal Power® does not endorse any other warranty, expressed or implied, and is not liable for consequential damages. Products that are damaged, opened, or modified do not qualify for a warranty. The same procedures must be followed for repairs outside the warranty period.

Revision Date: January 31, 2015