

**PRODUCT OVERVIEW**

DC Output Voltage	48V (DC) @ FULL LOAD
Output Amperage	20 Amps
Input Voltage Range	108 - 132 AC
Input Voltage Frequency	47-63 Hz

DESCRIPTION

The **DLS-48-20** power converter from IOTA Engineering converts nominal 120V A.C. voltage to 48V D.C. As a power supply, its tightly controlled regulation allows the user to operate any appropriate nominal D.C. load up to the converter's rated output current.

TECHNICAL SPECIFICATIONS

DC Output Voltage (No Load) approx.	48V (DC)
Output Voltage Tolerance (No Load)	+ or - .5%
Output Amperage, Max Continuous	20 Amps
Output Voltage (Full Load) approx.	>47.8V (DC)
Maximum Power Output, Continuous	950 Watts
Ripple and Noise	<100 mV rms
Input Voltage Range	108 - 132 AC
Input Voltage Frequency	47-63
Maximum AC Current (@108VAC)	17.1 Amps
Typical Efficiency	>80%
Max Inrush Current, Single Cycle	40 Amps
Short Circuit Protection	Yes
Overload Protection	>100%
Line Regulation	100 mV rms
Load Regulation	<1%
Fan Control*	Proportional
Thermal Protection	YES
Working Temperature Range	0° - 40° C
Storage Temperature	-20° to 80° C
Withstand Voltage**	1700/1700/500
Dimensions†	13" x 6.5" x 3.4"
Weight	7.8 lbs

*Proportional = Fan speed proportional to case temperature.

**Primary to Chassis/Primary to Secondary/Secondary to Chassis

†See reverse side for detailed mounting specifications.

THIS UNIT IS NOT UL LISTED

FEATURES

- Switch-mode technology
- Exceptionally clean DC output
- Tight line-load regulation
- Designed to withstand low transient AC line voltage
- Current limit and thermal/overload protection
- Lower operating temperature
- Proportional fan control circuitry allows fan to start and stop slowly for quiet fan operation
- External reverse polarity fuse protection from incorrect battery connection



P.O. BOX 11846 TUCSON, AZ 85734
 (520) 294-3292 • FAX (520) 741-2837
www.iotaengineering.com

DLS-48-20

AC/DC POWER CONVERTER

OPTIONS

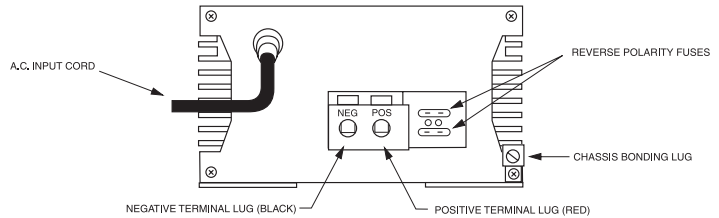
MODELS

DLS-48-20

INSTALLATION OVERVIEW

Disconnect the positive side of the battery before installation. Connect the positive (red) and negative (black) terminal lugs to battery or load. Always use the proper size wire based on the amperage of the converter and the battery. When connecting to a battery, a breaker should be installed within 18" of the battery, connecting the battery positive to the line side of the breaker, and the DLS to the load side. Connect "Chassis Bonding Lug" on the DLS to vehicle chassis or other grounding source.

Plug the DLS A.C. input cord into a 120 volt 3-wire grounded source. See chart for maximum current draw and required input voltages. For complete installation guidelines, refer to the installation manual.



WARRANTY

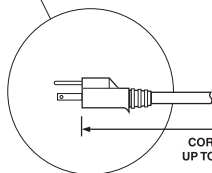
The DLS Series Battery Charger/Power Converter is warranted from defects in materials or workmanship for two years from date of retail purchase, and limits the remedies to repair or replacement. This warranty is valid only in the continental United States and Canada. For complete warranty details, contact Customer Service or visit www.iotaengineering.com.

MOUNTING FOOTPRINT

PLUG CONFIGURATION



NEMA 5-20P PLUG
FOR 20A RECEPTACLE



CORD LENGTH:
UP TO 36.00" MAX

