

**PRODUCT OVERVIEW**

DC Output Voltage	48V (DC) @ Full Load
Output Amperage	20 Amps
Input Voltage Range	108-132 VAC
Input Voltage Frequency	47-63 Hz

APPLICATION

Operation of 48VDC systems and accessories.

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

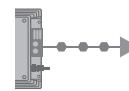
DC Output Voltage (No Load) approx.	48V (DC)
Output Voltage Tolerance (No Load)	+ or - .5%
Output Amperage, Max Continuous	20 Amps
Output Voltage (Full Load) approx.	>47.8V (DC)
Maximum Power Output, Continuous	950 Watts
Ripple and Noise	<100 mV rms
Input Voltage Range	108 - 132 AC
Input Voltage Frequency	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

Clean and steady DC Output operates your loads the way they were intended, avoiding potential damage to systems from errant DC voltage.



Built-in protection features guard the unit against erratic line voltage that can occur from shore power or generator supplies.



Reverse Polarity Protection to protect against damage from incorrect output hook-up, using readily available fuse types that are easy to replace.



Proportional fan control for whisper-quiet operation.

ADDITIONAL FEATURES INCLUDE...

- Switch-mode technology
- Current limit, thermal and overload protection
- Lower operating temperature



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DLS-48-20

AC/DC POWER CONVERTER

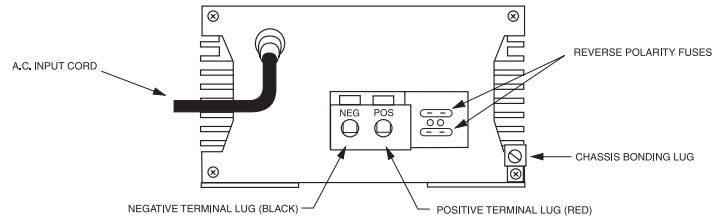
MODELS

- 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

