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DCP-20.8A-48V-TB-WP-M1

998.4 W Power Supply - 90-132V AC / 180-264V AC Input, 48V DC Output - 20.8A Max Output - W/ Contact Closer

Product ID: 324463

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).

Image: DCP-20.8A-48V-TB-WP-M1

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

DCP-20.8A-48V-TB-WP-M1 Power Supply

Line In Voltage: 90 ~ 132VAC / 180 ~ 264VAC @ 47~63 hz

Line Out: 48 V DC @ 20.8 Amps

Watts: 998.4W
AC Input Connector: Wire type, Stripped/Tinned Leads
DC Output Connector: Wire type, Stripped/Tinned Leads
Protection: Short Circuit/Overload (105 ~ 125% rated output power)/ Over Voltage (57.6 ~ 67.2V)/Over Temperature
Contact Closure: Included, Opens when power fails
Frequency Range: 47-63 Hz
AC Input Current: 17.5A/115VAC 10A/230VAC
AC Inrush Current: 35A/115VAC 55A/230VAC
Leakage Current: <2.5mA / 240VAC
Adjusted DC Output Voltage Range: 43 - 56V
Voltage Tolerance: ±1.0%
Line Regulation: ±0.5%
Load Regulation: ±0.5%
Efficiency: 89%
DC_Ok Signal: Turn on: 3.3V ~ 5.6V, Turn off: 0 ~ 1V
Remote Control: RC+/RC-: 0 ~ 0.8V power on; 4 ~ 10V power off

Features

IP67 Rated Waterproof
Overload, Short Circuit, Over Voltage, Over Temperature Protection
NRTL Certified to UL1012
NRTL Certified to UL60950-1
International Lighting Safety Standards Compliant
Suitable For LED Moving Signs
Suitable For Wet or Damp Locations

Hold-up Time: 20ms/230Vac, 15ms/115Vac at full load
Mounting: Mounted on a metal plate
Operating Temperature: -20°C - +60°C
Storage Temperature: -40°C - +85°C
Humidity: 20 ~ 90% RH non-condensing
Temperature Coefficient: ±0.05%/□ (0 ~ 50□)
Vibration: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
Dimensions: 10.94"-L x 5"-W x 2.5"-H
Weight: 0.92 lb

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
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E-mail: sales@larsonelectronics.com

The DCP-20.8A-48V-TB-WP-M1 from Larson Electronics is a Waterproof Power Supply that converts commonly used 90-132V AC/180-264V AC electrical current to 48 V DC @ 20.8 Amps. This converter is designed to be hardwired into building, boat, or vehicle electrical supplies where the voltage is typically within the 90-132V AC/180-264V AC range and reduces it to 48 V DC, allowing users to use standard AC power to operate equipment like our LED light bars and spotlights that require 48 V DC current.

The DCP-20.8A-48V-TB-WP-M1 power converter provides a safe and effective way for users to tap into and utilize common 90-132V AC/180-264V AC power sources and convert this current to 48 Volts DC for use with equipment that requires 48 volt DC electrical power. This unit can be operated with input current ranging from 90-132V AC/180-264V AC and will output 998.4-watt 48 Volt DC current. This power converter features an IP67 rated waterproof design, making it suitable for indoor or outdoor use and is wet-damp area approved. This converter includes integral short circuit, over voltage, over temperature and overload protection that will shut down the unit or reduce output in case of faults and overloads to protect the unit and connected equipment from damage.

The small size and wide input voltage range of this unit make it ideal for indoor-outdoor operation of Larson Electronics LED light bars and other equipment that requires 48 V DC voltage and anywhere 48 volt DC power is not readily available. The unit is mounted with two conventional screws via slots that allow removal and repositioning simply by loosening the screws.

This converter comes with clearly labeled input and output leads that are approximately 1 foot long and stripped and tinned for hardwired connections using butt splice connectors, wire screws, plates, etc.

This power converter has a -20°C ~ +60°C operating temperature range and is NRTL certified to UL 1012 and UL 60950-1 standards as well as compliant with worldwide safety regulations for lighting. This unit has a 89% conversion efficiency and is suitable for use with moving LED signs and similar LED equipment. These units also feature Power Factor Correction, adjustable output current range from 8 ~ 16 A either through the output cable or internal potential meter and have an input frequency range of 47 ~ 63Hz.

NOTE: In order to obtain the best performance and the longest operational life from these units, it is recommended that you do not exceed 75% of the unit's output amperage. To determine if this converter suits your desired application, add together the total wattage of the equipment you intend to use with this unit and divide this total by 42 volts to find the total amperage draw that will be placed upon the converter. Running these units at 100% of their capacity can create excess heat and lead to shortened converter life.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement,

retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)

There are no Faqs

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Export Control Classification Number (ECCN): EAR99

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