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DCP-80A-125VDC-DP-WP-RM

10 KW 1Ph AC to DC Rectifier - 208/240V AC Input, 125V DC Output, 80A - 45-66 Hz - Rack Mount

Product ID: 341759

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



Image: DCP-80A-125VDC-DP-WP-RM

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-80A-125VDC-DP-WP-RM AC to DC Rectifier

Unit Type: AC to DC Rack Mount Switchmode Rectifier
Dimensions: 482 × 410 × 132 mm (18.97" × 16.14" × 5.19")
Front Panel Dimensions: 482 mm (19") × 3U
Weight: 7.9 kg (17.5 lbs)
Input Voltage: 208/240V AC, 1 Phase, 45-66 Hz (120V AC model also available)
Output Voltage: 125V DC Nominal
Output Current: 80A Maximum
Capacity Rating: 10 kW
Startup Time: Soft-start (Walk-In Circuit)
Efficiency: 93%
Power Factor: 0.99 at Full Load
Polarity: Floating DC Output
Voltage Regulation: ±0.5% from No Load to Full Load
Temperature Coefficient: +/- 0.02%/C
Holdup Time: 33 ms minimum
Transient Response: Maximum ±10% voltage excursion for a 20% to 100% load step; recovery within 50 ms; transient settles within 100 ms
Remote Sensing: Battery Temperature Compensation
Protection: Battery Under Voltage Protection (LLVD), Current Limit (110%), Individual Module Monitoring, Multiple Alarm Levels
Efficiency Factor: 0.99 Power Factor Corrected

Ratings

Ripple/Noise: <30 mV RMS (with battery), <45 mV RMS (without battery)
Battery Type: Compatible with 125VDC Battery Systems
Switching Frequency: 55 kHz
Cooling: Variable-Speed Fan Cooling
Operating Ambient Temperature: 0°C to +55°C
Cable Entry: Rear
Materials: Steel Rack Enclosure
Mount: 19" or 23" Rack Mount
Wiring: Rear Terminal Connections

Special Orders - Special Requirements
Contact us for special requirements
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The Larson Electronics DCP-80A-125VDC-DP-WP-RM AC to DC Rectifier provides reliable DC power conversion and battery charging capabilities for industrial and telecommunications applications. This unit accepts 208/240V AC, single-phase input at 45-66 Hz and delivers 125V DC output with a maximum output current of 80 amps (10 kW). Housed in a compact 3U rack-mount enclosure, the rectifier features modular hot-swappable power modules, high power factor correction, and advanced monitoring functions for dependable continuous operation.

The DCP-80A-125VDC-DP-WP-RM is a high-efficiency AC to DC rectifier designed for demanding industrial environments. The unit accepts 208/240V AC, single-phase input power and provides regulated 125V DC output with up to 10 kW of output capacity. Operating at 93% efficiency with 0.99 power factor correction, the rectifier offers ±0.5% voltage regulation, active load sharing, current limiting, battery under-voltage protection (LLVD), programmable alarm contacts, battery temperature compensation, battery testing, and SNMP TCP/IP communications for remote monitoring and system management.

This enclosed unit features a durable metal rack-mount chassis with variable-speed fan cooling for efficient thermal management. Operators can access rear terminal connections for AC input, DC output, battery connections, and controller interfaces.

Mounting: The rectifier is housed in a 19-inch or 23-inch, 3U rack-mount enclosure and is designed for installation in standard equipment racks, making it ideal for telecommunications facilities, substations, utility control systems, industrial automation, battery backup systems, and power distribution equipment.

Applications: Telecommunications, utility substations, battery charging systems, industrial automation, control systems, DC power distribution, backup power systems, manufacturing facilities, electrical infrastructure, and other industrial applications requiring reliable 125VDC power.

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

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/341759.JPG)
- **Video1**(https://www.youtube.com/watch?v=1ZUP0hZxQIk)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
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