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MT-PSU-ADC-R7-3P-480VAC-9.6KW-60VDC-Z-M1

9.6 KW High Voltage Quadrupole AC to DC Power Supply, 480V AC 60 Hz Input to 60V DC Output, 160A

Product ID: 331986

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

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.

MT-PSU-ADC-R7-3P-480VAC-9.6KW-60VDC-Z-M1 High Voltage Quadrupole AC/DC Power Supply

Unit Type: High Voltage Quadrupole AC/DC Power Supply

Output:

DC Voltage: 20 VDC
Rated Current: 160 ADC
Rated Power: 9600W
Output Regulation (incl. drift, ripple & set point): ≤ ±0.1%
Voltage Ripple (Differential & Common Mode): ≤ 0.1%

Input:

Voltage Range: 480VAC
Phase/Frequency: 3-Phase, 60 Hz

AC Line Protection: Devices rated 65 kAIC @ 480 VAC

Cooling: Forced air cooling (air-cooled design)

Protection:

Overload Protection
Over-Voltage Protection
Short Circuit Protection
Ground Fault Protection

Environment:

Maximum Ambient Operating Temperature: 40 °C

Operating Humidity: Industrial, non-condensing

Ratings:

NRTL Listed (UL / CSA) or EU Equivalent
Designed for industrial power conversion and continuous duty operation
Suitable for particle accelerator magnet power supply applications

Features:

Ethernet-based controls interface
Adjustable feedback compensation for inductive loads, Supports time constants from 0.2 to 2 seconds
Built-in ground fault protection
External interlock interface
Output status indication via normally open, dry contact or opto device, Held closed during normal operation (failsafe polarity)
Forced air cooling (air-cooled design)
Supports series and parallel configurations using master units
100% full-load burn-in tested

Special Orders - Special Requirements:

Contact us for special requirements

Mounting: Standard 19″ Rack
Dimensions: TBD
Warranty: 2 Years

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The MT-PSU-ADC-R7-3P-480VAC-9.6KW-60VDC-Z-M1 from Larson Electronics is a three-phase AC/DC Power Supply designed to deliver precise current and voltage regulation for particle accelerator and industrial magnet applications. This high voltage quadrupole power supply operates from a 480V AC, 60 Hz, three-phase input and provides a regulated 60V DC output at 160 amps. Engineered for continuous duty operation, this air-cooled unit is compatible with 19″ rack-mount installations and incorporates protection features required for inductive load applications.

The MT-PSU-ADC-R7-3P-480VAC-9.6KW-60VDC-Z-M1 is a high-reliability AC/DC power supply rated at 9.6 kW, providing stable output regulation within ±0.1%, including drift, ripple, and set point accuracy. Designed for use with inductive magnet loads, this unit features adjustable feedback compensation, built-in ground fault protection, an external interlock interface, and an output status signal via a normally open dry contact or opto device held closed during normal operation. The power supply supports Ethernet-based controls and has proven compatibility with EPICS-based control systems used in particle accelerator environments. This unit is NRTL listed (or EU equivalent) and suitable for operation in ambient temperatures up to 40 °C.

Applications: Particle accelerator facilities, beam transport lines, quadrupole magnet power systems, research laboratories, industrial magnet control, precision power conversion, and other critical current-regulated DC power applications.

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

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