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MT-PSU-ADC-R7-1P-120VAC-100W-10000VDC-Z-M1

100 W High Voltage Power Supply - 120V AC Input, 10000V DC Output - 80 mA Max Output

Product ID: 341489

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-R7-1P-120VAC-100W-10000VDC-Z-M1 AC to DC Power Supply

Unit Type: AC/DC Power Supply

Phase: Single Phase
Input Voltage: 120 VAC ±10% @ 60 Hz
Nominal Input Current: 0.9 A
Maximum Apparent Input Power: 108 VA
Nominal Power Class: 100 W
Output Voltage: 10 kVDC nominal
Output Current: 80 mA nominal
Rated Output Power: 800W
Output Configuration: Fixed output; automatically energized when AC input power is applied
Output Adjustment: None
AC Line Input Cable: Permanently attached, three-conductor cable with line, neutral and equipment grounding conductor
AC Input Cable Length: 5′
AC Input Plug: NEMA 5-15P, 120 VAC grounding plug
High-Voltage Output Leads: Two permanently attached lamp leads
Output Cable Type: GTO-10 integral-sleeve high-voltage lead wire
Output Cable Construction: Single-conductor, silicone-jacketed high-voltage cable.
Output Cable Conductor Size: 18 AWG
Output Cable Length: 24″ per lead
Output Cable Temperature Rating: 150°C
Output Cable Voltage Rating: 10,000 V
Output Cable Listing: UL/C(UL) listed cable
Protection: Secondary ground-fault protection designed to meet UL 2161 requirements
Additional Protection: Input overcurrent protection, output short-circuit protection, open-load protection and overtemperature shutdown
Operating Temperature Range: 0°C to +50°C
Humidity: 10% to 90% relative humidity, non-condensing
Interface Connector: 26-pin rear terminal block for remote control and monitoring
Enclosure Application: Indoor use
Enclosure Design: Compact black rectangular, fully potted enclosure

Features

Designed as a compact functional replacement for the customer's existing neon power supply
Fully potted electronic construction
Secondary ground-fault protection
Uses UL-listed or UL-recognized components where applicable

Special Orders - Special Requirements

Contact us for special requirements

Mounting: Surface mounting with integral mounting tabs
Target Dimensions: 1.75″ H × 2.75″ W × 6″ L
Maximum Design Envelope: 2″ H × 3.5″ W × 6″ L
Weight: To be determined by final design

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The MT-PSU-ADC-R7-1P-120VAC-100W-10000VDC-Z-M1 from Larson Electronics is a single-phase high voltage AC/DC power supply designed to deliver precise DC voltage regulation for laboratory, industrial, and system-integrated applications. This compact power supply accepts 120V AC ±10% at 60 Hz input and provides a regulated DC output up to 10 kV. Rated for 100 watts of output power, the unit incorporates advanced voltage and current regulation, arc detection, overcurrent, overvoltage, and thermal protection for reliable operation in demanding environments.

The MT-PSU-ADC-R7-1P-120VAC-100W-10000VDC-Z-M1 is a high-frequency inverter-based DC power supply offering 0–10 kV DC adjustable output with a maximum output current of 80 mA at full voltage. Voltage and current are continuously adjustable via front-panel controls, with monitoring provided by integrated digital meters. The power supply is designed as a component-level device intended for installation within a customer-provided enclosure or system, and is available with positive, negative, or reversible polarity configurations.

Mounting: The MT-PSU-ADC-R7-1P-120VAC-100W-10000VDC-Z-M1 is designed for 19-inch rack mounting (2U height) and system integration installations.

Applications: Industrial sites, factory control, automation, laser machines, manufacturing, voltage control, power management, digital broadcasting, RF applications, computerized systems and more.

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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- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
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