

**MT-PSU-ADC-R7-1P-120.208VAC-2KW-48DC-IP20-M1**

**2 KW AC to DC Power Supply, 120/208V AC Input to 48V DC Output, 47-63Hz, IP20**

**Product ID: 338580**



Image: MT-PSU-ADC-R7-1P-120.208VAC-2KW-48DC-IP20-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.**

**MT-PSU-ADC-R7-1P-120.208VAC-2KW-48VDC-IP20-M1 AC to DC Power Supply**

**Unit Type:** AC/DC Power Supply

**Phase:** Single Phase

**Dimensions:** 5.9" W x 13.3" L x 1.6" H

**Weight:** Approx. 8 lbs (3.6 kg)

**Input Voltage:** 120/208V AC

**Rated Input Frequency:** 47-63Hz

**Output Voltage:** 48V DC (Adjustable 43-58V DC)

**Current:** 40A Minimum (41.7A Typical)

**Rated Output Power:** 2000W Minimum

**Efficiency:** Up to 94%

**Ripple And Noise:** 480mVp-p Maximum (20MHz Bandwidth)

**Electromagnetic Compatibility:** EN55032 Class B, EN61000-3-2, EN61000-3-3, EN61000-4 Series

**Protection Degree:** IP20

**Isolation:** Input to output: 3,000V AC, Input to case: 1500 VDC, Output to case: 500 VDC

**Circuit Protection:** Short Circuit, Overload, Over Voltage, Over Temperature Protection with Automatic Recovery

**Input Protection:** Internal fuse, In-rush current limiting, Transient protection

**Input Connection:** Terminal Block

**Output Connection:** Terminal Block

**Over Temperature Protection:** Output shut down if maximum case temperature limit is exceeded



**Reliability:** MTBF Greater Than 100,000 Hours (Per MIL-HDBK-217F at 25°C)

**Shock:** Method 516.6, Procedure IV, MIL-S-901 requirements (Light weight)

**Vibration:** Method 514.5, MIL-STD-167, type 1 requirements

**Humidity:** Method 507 (Power supply operates without any evidence of degraded performance in non-condensing relative humidity up to 95%)

**Altitude:** Method 500.4, Procedure I & II

**High Temperature:** Method 501.4, Procedure I & II

**Low Temperature:** Method 502.4, Procedure I

**Sand and Dust:** Method 510.4, Procedure I & II

**Explosive Atmosphere:** Method 511.4, Procedure

**Acceleration:** Method 513.5, Procedure I & II

**Remote Error Sensing:** Standard

**Storage Temperature Range:** -50°C to +85°C

**Operating Temperature Range:** -40°C to +70°C

**Materials:** Gold Alodine

**Mount:** Standalone Use On Flat Surfaces with Four Bolts

**Color:** Gold

### Special Orders - Special Requirements

Contact us for special requirements

**Intl:** 1-903-270-1187

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The MT-PSU-ADC-R7-1P-120.208VAC-2KW-48DC-IP20-M1 from Larson Electronics is a single phase AC/DC Power Supply that provides reliable voltage conversion and power management for industrial and commercial applications. This AC/DC power supply unit is compatible with 120/208V AC @ 47-63Hz input voltage and provides 48V DC output voltage. Equipped with short circuit, overload, over voltage, and over temperature protection functions, this power supply is suitable for integration into control systems, automation equipment, telecommunications systems, and battery charging applications. This power supply is compatible with rack mounting installations or can be used as a standalone unit.

The MT-PSU-ADC-R7-1P-120.208VAC-2KW-48DC-IP20-M1 is a compact AC/DC power supply that accepts 120/208V AC input power and delivers a regulated 48V DC output at 40 amps minimum. This MT-PSU-ADC-R7-1P-120.208VAC-2KW-48DC-IP20-M1 device is rated for 2 KW continuous output power and features high efficiency operation of up to 94% with active Power Factor Correction. The MT-PSU-ADC-R7-1P-120.208VAC-2KW-48DC-IP20-M1 incorporates remote sensing capability, forced air cooling, and comprehensive protection circuitry for dependable performance in demanding industrial environments. The unit supports 208V AC input operation and provides stable DC power for critical equipment and electronic systems.

**Mounting:** The MT-PSU-ADC-R7-1P-120.208VAC-2KW-48DC-IP20-M1 is suitable for standalone use on flat surfaces with mounting hardware or integration into equipment racks and electrical enclosures.

**Applications:** Industrial automation, process control systems, telecommunications equipment, battery charging systems, factory control panels, manufacturing facilities, instrumentation, digital broadcasting, RF applications, computerized systems, power distribution equipment, 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](mailto: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