Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

MT-UPS-1P-80.265V-5KVA-115V-R1-N1-M1

5 KVA Uninterruptible Power Supply - 80-265V AC Input - 115V Output - 1PH - True Online Double Conversion - Rack Mounted 1U - 10 Minute Runtime

Product ID: 338399

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

Image: MT-UPS-1P-80.265V-5KVA-115V-R1-N1-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-UPS-1P-80.265V-5KVA-115V-R1-N1-M1 Industrial Battery Backup

Unit Type: Uninterruptible Power Supply
Dimensions: 19" Rack Mount, 1U Height
Weight: TBD
Input Voltage: 80-265V AC, 1PH, 47-65Hz
Output Voltage: 115V AC, 1PH
Output Power Capacity: 4.5 KW/5 KVA
Max Configurable Power: 4.5 KW/5 KVA
Output Voltage Distortion: Less Than 3%
Power Factor: 0.9
Crest Factor: 3:1, Double Conversion Online
Waveform Type: Sine Wave
Battery Type: Lithium Iron Phosphate (LFP)
Battery Expansion: External Battery Modules (EBM) Supported
Battery Serviceability: Hot-Swappable Battery Drawers
Battery Service Life: 5-10 Years
Run Time: Minimum 10 Minutes at Full Load
Recharge Time: 2-4 Hours to 90% Capacity
Galvanic Isolation: Shielded Internal Input Transformer

Ratings/Approvals

True Online Double Conversion
MIL-STD-810G/H Compliant
MIL-STD-461F/G Compliant
Shipboard Compatible (MIL-STD-1399-300B)

Interface: SNMP, Ethernet (RJ45), RS-232, USB
Control Panel: LCD Status Display with Load, Battery Health and Alarm Indicators
Audible Alarm: High Intensity Audible Alarm (>90 dB)
Manual Bypass: Front Panel Maintenance Bypass Switch
Battle Short Mode: Yes
Operating Temp: -20°C to +55°C
Operating/Storage Relative Humidity: Up to 95% Non-Condensing
Ingress Protection: Conformal Coated PCB Assemblies
Materials: Ruggedized Steel Construction
Hardware Material: Powder Coated Steel
Enclosure Type: NEMA 1
Enclosure Finish: Aluminum Lacquer Paint
Mount: 19" Rack Mount, 1U
Input Connections: Hardwired
Output Connections: Hardwired
Bypass: Internal Manual Maintenance Bypass
All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

Special Orders - Special Requirements
Contact us for special requirements
Intl: 1-903-270-1187
Toll Free: 1-800-369-6671
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The MT-UPS-1P-80.265V-5KVA-115V-R1-N1-M1 is a ruggedized Industrial Uninterruptible Power Supply (UPS) designed for mission-critical applications where continuous power availability is essential. Engineered for military, industrial, communications, and data infrastructure environments, this rack-mounted UPS features true online double-conversion technology, ensuring zero transfer time and clean, regulated output power during utility disturbances and outages.

The MT-UPS-1P-80.265V-5KVA-115V-R1-N1-M1 operates on an 80-265V AC, single-phase input at 47-65Hz and delivers a regulated 115V AC, single-phase output. Rated at 4.5 kW / 5 kVA, this UPS provides reliable backup power for sensitive electronic equipment, communications systems, network infrastructure, industrial controls, and command-and-control operations. The system offers a minimum runtime of 10 minutes at full load and supports external battery modules for extended runtime requirements.

Key Features: True Online Double Conversion Technology: The UPS continuously conditions incoming power and provides seamless battery backup with zero transfer time during power interruptions, ensuring uninterrupted operation of connected equipment.

Advanced Lithium Iron Phosphate Battery System: The unit utilizes high-performance Lithium Iron Phosphate (LFP) battery technology for extended service life, improved safety, reduced maintenance, and enhanced energy density. Hot-swappable battery drawers allow maintenance without disrupting critical loads.

Military and Industrial Compliance: Designed to meet demanding operational requirements, the UPS complies with MIL-STD-810G/H environmental standards and MIL-STD-461F/G electromagnetic interference requirements. Conformal-coated PCB assemblies and ruggedized steel construction provide increased durability in harsh operating environments.

Power Quality and Isolation: A shielded internal input transformer provides galvanic isolation and protection against electrical noise, ground loops, and transient disturbances. The pure sine wave output ensures compatibility with sensitive electronic equipment.

Control and Monitoring: An integrated LCD control panel provides real-time visibility of load levels, battery health, alarm conditions, and system status. Remote monitoring and management are supported through SNMP, Ethernet (RJ45), RS-232, and USB communication interfaces.

Maintenance and Reliability Features: The UPS includes a front-panel manual maintenance bypass switch, allowing servicing without interrupting power to connected loads. Battle Short Mode provides enhanced operational continuity during critical mission scenarios, while high-intensity audible alarms alert operators to power events and system conditions.

Environmental Performance: Designed for operation in challenging conditions, the unit supports operating temperatures from -20°C to +55°C and humidity levels up to 95% non-condensing. Ruggedized steel construction and conformal-coated electronics provide additional protection against environmental stresses.

Mounting: The MT-UPS-1P-80.265V-5KVA-115V-R1-N1-M1 features a compact 19-inch rack-mounted 1U form factor, making it ideal for installation in communications racks, equipment shelters, network cabinets, command centers, and industrial control systems where space efficiency and reliability are paramount.

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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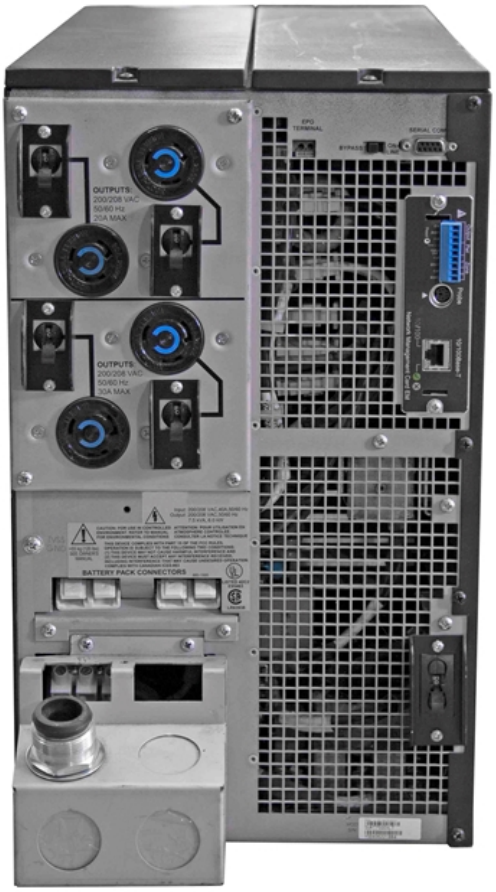

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Export Control Classification Number (ECCN): EAR99

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