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-240V-18KVA-240V-R1-N1-50HZ

18 KVA Uninterruptible Power Supply - 240V Input, 240V Output, 50Hz, 1PH - 16KW - MFSLA Batteries

Product ID: 339544

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



Image: MT-UPS-1P-240V-18KVA-240V-R1-N1-50HZ

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-240V-20KVA-240V-R1-N1-50HZ Industrial Battery Backup

Unit Type: Uninterruptible Power Supply
Topology: True Online Double-Conversion
Dimensions: 23.6" x 31.6" x 70.9"
Weight: 245 lbs
Input Voltage: 240V AC, 1PH (Live & Neutral), 50Hz
Output Voltage: 240V AC, 1PH (Live & Neutral), 50Hz
Output Power Capacity: 18 kVA (Approx. 14–18 kW)
Max Configurable Power: 15.3 kW
Frequency: 50Hz Operation (Optional Auto-Selectable 50/60Hz)
Output Voltage Distortion: Less Than 3%
Crest Factor: 3:1, Double Conversion Online
Waveform Type: Pure Sine Wave
Battery Type: Maintenance-Free Sealed Lead Acid (MFSLA), Factory Installed within UPS Cabinet
Modular Architecture: Expandable Power Modules and Battery Runtime Options
Rectifier/Charger Capacity: Supports Inverter Operation at Full Rated Load; Recharges Batteries from Fully Discharged State to 95% Capacity within 10× Rated Discharge Duration
Efficiency: High-Efficiency Online Double-Conversion Protection

Ratings/Approvals

Neutral-Ground Bond: Integrated or External Isolation Transformer Option
Control Panel: Front-Mounted LED Touch-Screen Display with Detailed System Status and Control Functions
Status Indications: Normal Operation, Load on Bypass, Load on Battery, Battery Problem/Failure, Additional System Alarms and Warnings
Safety Features: Overload Protection, Short Circuit Protection, Surge Protection, Battery Monitoring, Automatic Bypass, Emergency Power Off (EPO), and Standard UPS Safety Functions
Operating Temp: 0°C to 40°C
Operating/Storage Relative Humidity: 0-95% Non-Condensing
Operating Elevation: 0–10,000 ft
Storage Temp: -15°C to 45°C
Storage Elevation: 0–50,000 ft
Materials: -
Hardware Material: Zinc Plated Steel
Enclosure Finish: Aluminum Lacquer Paint
Mount: Surface Mount
Input Connections: Hardwired Input
Output Connections: Hardwired Output
Bypass: Internal 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-240V-18KVA-240V-R1-N1-50HZ is an Industrial True Online Double-Conversion Uninterruptible Power Supply (UPS) designed to provide continuous, regulated power protection for industrial facilities, critical infrastructure, and commercial applications. This battery backup system operates on 240V AC, single-phase (Live & Neutral), 50Hz power and features a front-mounted LED touch-screen display for real-time system monitoring, diagnostics, and control.

The MT-UPS-1P-240V-18KVA-240V-R1-N1-50HZ delivers 18 kVA (minimum 15.3 kW) of conditioned backup power through a true online double-conversion topology, providing clean sine wave output with less than 3% total harmonic distortion (THD). The UPS accepts 240V AC, single-phase, 50Hz hardwired input and provides 240V AC, single-phase, 50Hz hardwired output for customer-supplied equipment. The system incorporates a factory-installed Maintenance-Free Sealed Lead Acid (MFSLA) battery and a high-capacity rectifier/charger capable of supporting the inverter at full rated load while recharging the batteries from a fully discharged state to 95% capacity within ten times the rated discharge duration. The UPS is also available with expandable power modules and extended battery runtime options to accommodate future load growth.

The unit features high-efficiency online double-conversion protection, integrated battery monitoring, automatic internal bypass, overload protection, short-circuit protection, surge suppression, and Emergency Power Off (EPO). The front-mounted LED touch-screen display provides comprehensive operating information including Normal Operation, Load on Bypass, Load on Battery, Battery Status, Battery Faults, and System Alarms. An integrated or optional external isolation transformer is available to provide neutral-ground bonding where required by the application.

Wiring: This unit accepts hardwired 240V AC, single-phase (Live & Neutral) input connections and provides hardwired 240V AC, single-phase (Live & Neutral) output connections for protected loads.

Mounting: The MT-UPS-1P-240V-18KVA-240V-R1-N1-50HZ is designed for surface-mounted installations in indoor industrial and commercial environments.

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.

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

Frequently Asked Questions (FAQ)

There are no Faqs

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



Image: MT-UPS-1P-240V-18KVA-240V-R1-N1-50HZ

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



Image: MT-UPS-1P-240V-18KVA-240V-R1-N1-50HZ

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



Image: MT-UPS-1P-240V-18KVA-240V-R1-N1-50HZ

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

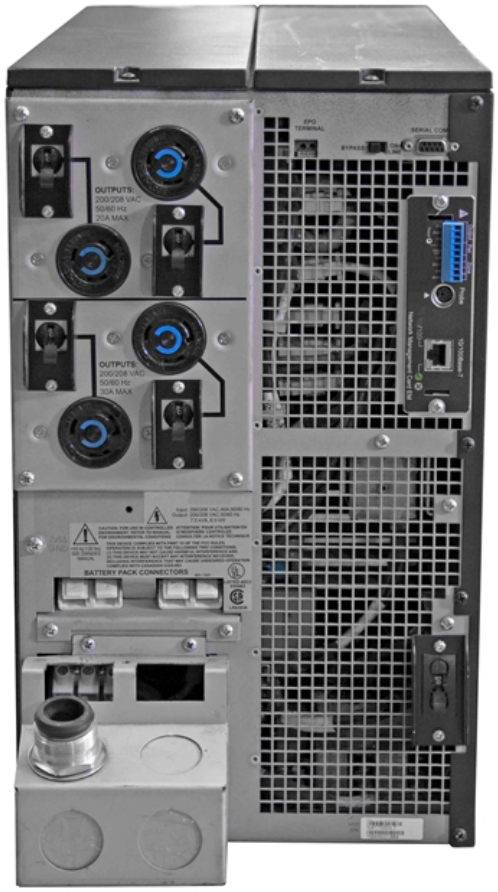

Image: MT-UPS-1P-240V-18KVA-240V-R1-N1-50HZ

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1** (https://www.larsonelectronics.com/images/product/HigResPic1/339544.JPG)
- **HigResPic2** (https://www.larsonelectronics.com/images/product/HigResPic2/339544.JPG)
- **HigResPic3** (https://www.larsonelectronics.com/images/product/HigResPic3/339544.JPG)
- **HigResPic4** (https://www.larsonelectronics.com/images/product/HigResPic4/339544.JPG)
- **HigResPic5** (https://www.larsonelectronics.com/images/product/HigResPic5/339544.JPG)
- **HigResPic6** (https://www.larsonelectronics.com/images/product/HigResPic6/339544.JPG)
- **Video1** (https://www.youtube.com/watch?v=LCYOu15ez4s)
- **ISO 9001 Certification** (http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate** (https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map** (https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)