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MT-UPS-3P-480Y.277-250KVA-480Y.277-R1-N3R-M1

250 KVA Uninterruptible Power Supply - 480Y/277V 60Hz - 3PH - 200 KW - NEMA 3R

Product ID: 339407

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

Image: MT-UPS-3P-480Y.277-250KVA-480Y.277-R1-N3R-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-3P-480Y.277-250KVA-480Y.277-R1-N3R-M1 Industrial Battery Backup

Unit Type: Uninterruptible Power Supply
Dimensions: Approximately 56" W x 33" D x 70" H
Weight: Approximately 3,100 lbs
Input Voltage: 480Y/277V AC, 3PH, 4W, 60Hz
Output Voltage: 480Y/277V AC, 3PH, 4W, 60Hz
Output Power Capacity: 250 KVA / 200 KW
Max Configurable Power: 250 KVA / 200 KW
Input Power Factor: 0.8
Output Power Factor: 0.8
Nominal Input Current: 315 Amps
Maximum Input Current: 408 Amps
Nominal Output Current: 301 Amps
10-Minute Overload Current: 376 Amps
Load Transfer Time: No Break
Waveform Type: True Sine Wave
Battery Type: Valve-regulated Lead Acid (VRLA)
Nominal Battery Voltage: 480 VDC (240 Cells)
Battery Runtime: 8–53 Minutes (Depending on Battery Cabinet Selection)
Output Isolation Transformer: Integral K-30 Rated
Communication Interface: RS232C and AS/400 Communication Ports

Ratings/Approvals

Double Conversion Online Topology
ETL / UL 1778 Listed

Static Switch: Fully Rated, Integral
Control Panel: Multilingual LCD Display
Audible Alarm: Fault, Overload, Battery and Bypass Conditions
Emergency Power Off (EPO): Yes
Generator Compatible: Yes
Efficiency @100% Load: 93.0%
Efficiency @75% Load: 92.5%
Efficiency @50% Load: 92.0%
Heat Rejection: Approximately 51,300 BTU/hr
Operating Temperature: +18°F to +104°F (-8°C to +40°C)
Operating Relative Humidity: 0–95% Non-Condensing
Operating Elevation: 3,300 ft (1,000 m) Without Derating
Enclosure: NEMA 3R
Mount: Floor Mount
Input Connections: Hardwire, 3PH + Neutral + Ground
Output Connections: Hardwire, 3PH + Neutral + Ground
Bypass: Internal Maintenance Bypass with Fully Rated Integral Static Switch
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
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The MT-UPS-3P-480Y.277-250KVA-480Y.277-R1-N3R-M1 is an advanced Industrial Uninterruptible Power Supply (UPS) suitable for demanding environments such as data centers, healthcare facilities, manufacturing plants, utility substations, telecommunications sites, and other mission-critical industrial applications. This UPS unit operates on a three-phase 480Y/277V AC, 60 Hz supply and utilizes true double-conversion online technology to provide continuous conditioned power and seamless backup during utility disturbances or outages.

The MT-UPS-3P-480Y.277-250KVA-480Y.277-R1-N3R-M1 provides reliable battery backup protection for critical electrical equipment in industrial and commercial facilities. This 250 kVA / 200 kW UPS system features a three-phase 480Y/277V AC, 60 Hz input and a three-phase 480Y/277V AC, 60 Hz output. The unit incorporates an integral K-30 rated output isolation transformer, fully rated static switch, and internal maintenance bypass, providing continuous operation and simplified maintenance without interrupting the connected load.

Key Features: Battery Backup System: The unit utilizes a 480 VDC valve-regulated lead-acid (VRLA) battery system. Battery runtime depends on the selected battery cabinet configuration and application requirements. The system includes a temperature-compensated battery charger and automatic battery testing to maximize battery performance and reliability.

Double Conversion Online Operation: The UPS continuously converts incoming AC power to DC and back to AC, isolating connected equipment from power disturbances such as voltage sags, surges, harmonics, and electrical noise while providing zero transfer time during utility outages.

High Reliability: The MT-UPS-3P-480Y.277-250KVA-480Y.277-R1-N3R-M1 features redundant cooling fans, generator-compatible operation, an integral K-30 rated output isolation transformer, and a fully rated static bypass switch to maximize system availability and operational reliability.

Control and Monitoring: The UPS features a multilingual LCD display that provides real-time system status, operating parameters, alarm conditions, and diagnostic information. The

system supports automatic battery testing and onboard monitoring functions to simplify maintenance and improve system uptime.

Interfaces: Available communication interfaces include RS232C and AS/400 communication ports, allowing integration with facility monitoring and building management systems.

Input and Output Wiring: The unit accepts hardwired, 4-wire (3-phase + neutral + ground) input connections and provides hardwired, 4-wire (3-phase + neutral + ground) output connections for straightforward integration into existing electrical distribution systems.

Power Protection: The UPS provides true sine wave output, zero transfer time, and continuous voltage regulation to ensure stable, uninterrupted power delivery to sensitive electronic equipment during utility disturbances.

Operating Conditions: The unit is designed to operate in ambient temperatures from +18°F to +104°F (-8°C to +40°C) with 0-95% non-condensing relative humidity and elevations up to 3,300 feet (1,000 meters) without derating. The system is housed in a NEMA 3R floor-mounted enclosure suitable for indoor and protected outdoor installations.

Mounting: The MT-UPS-3P-480Y.277-250KVA-480Y.277-R1-N3R-M1 Series UPS is designed for floor-mounted installations and utilizes hardwired electrical connections for industrial and commercial power systems.

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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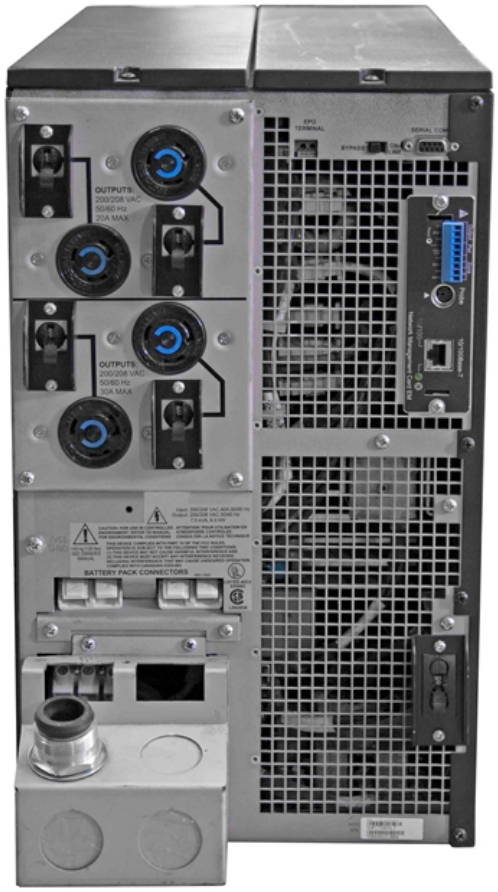

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