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MT-UPS-3P-480V-400KVA-480V-R1-N3R

400 KVA Uninterruptible Power Supply - 480V 60Hz, 3PH+N - 400 KW, NEMA 3R

Product ID: 314132

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-480V-400KVA-480V-R1-N3R Uninterruptiple Power Supply

Unit Type: Uninterruptible Power Supply

Dimensions: 53"-W x 35"-D x 78"-H

Weight: 2,307lbs

Input Voltage: 480V AC 3PH, 60Hz single feed + neutral

Output Voltage: 480V AC 3PH, 60Hz single feed + neutral

Output Power Capacity: 400 KW (Modular up to 400 KVA)

Max Configurable Power: 400 KW (Modular up to 400 KVA)
Input Power Factor: 0.99pf @ 100% load

Interrupting Capacity: 65kAIC

Alternative Back-up power technologies: Wet Cell, NiCad, Lithium-ion, Super capacitors
Load Transfer Time: No Break
Output Voltage Distortion: Less Than 3%
Crest Factor: 3:1, Double Conversion Online
Waveform Type: Sine Wave
Battery Type: Valve-regulated Lead Acid (VRLA)

Battery Autonomy: Minimum of 12 minutes at full load

Recharge Time: Typically around 2 hours, depending on the battery type and load conditions
Filtering: Full-time Multi-pole Noise Filtering: 0.3% IEEE Surge Let-through: Zero Clamping Response Time
Interface: DB-9 RS-232 , RJ-45 10/100 Base-T, Smart-Slot
Pre-Installed SmartSlotT Cards: AP9619
Control Panel: LED Status Display with Load and Battery Bar-graphs; On Line, On Battery, Replace Battery, Overload and Bypass Indicators

Ratings/Approvals

Features an SKRU (Static Keyed Receptacle Unit) for safe and reliable bypass operation.
Equipped with a DPA (Distributed Parallel Architecture) battery temperature probe
Equipped with an Advanced Network Card (ANC)
Includes a demo license for remote monitoring and connectivity
Electronic interlock with SKRU ensures proper sequencing of switches
Includes Level 1 startup and commissioning to ensure proper installation and initial operation

Audible Alarm: Alarm When on Battery, Distinctive Low Battery Alarm and Overload Continuous Tone Alarm
Emergency Power Off (EPO): Yes
Operating Temp: 0°C to 40°C
Operating/Storage Relative Humidity: 0-95%
Operating Elevation: 0-10,000`
Storage Temp: -15°C to 45°C
Storage Elevation: 0-50,000`
Materials: -
Hardware Material: Zinc Plated Steel
Enclosure Finish: Aluminum Lacquer Paint
Mount: Surface Mount
Input Connections: Hardwire 4-wire (3PH + N)
Output Connections: (1) Hardwire 4-wire (3PH + N) (Battery Backup) ,
Bypass: Internal
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-480V-400KVA-480V-R1-N3R is an advanced Industrial Uninterruptible Power Supply (UPS) suitable for demanding environments like data centers, healthcare facilities, and large industrial plants. This UPS unit operates on a three-phase 480V AC supply and features an adaptable design that accommodates both battery and kinetic energy storage systems.
The MT-UPS-3P-480V-400KVA-480V-R1-N3R provides comprehensive battery backup support for essential equipment in industrial and commercial settings. This 400 kVA UPS system features a three-phase 480V AC 60Hz input and a three-phase 480V AC, 60Hz output. The unit is equipped with an output power capacity of 400 kW (Modular up to 400 kVA) and supports dynamic ride-through capabilities, allowing it to handle voltage dips of up to -50% without immediate reliance on stored energy.
Key Features: Energy Storage Options: The unit supports both traditional battery storage and kinetic energy storage systems. The battery option uses a maintenance-free sealed lead-acid battery with a suspended electrolyte, designed to be leakproof and reliable. The recharge time for the battery is approximately 2 hours, depending on the load and battery type.

Dynamic Voltage Compensation: This UPS system can manage significant voltage dips without switching to stored energy or generator support, making it highly resilient in fluctuating power conditions.

High Efficiency: The MT-UPS-3P-480V-400KVA-480V-R1-N3R operates with an efficiency of up to 98% in online mode, minimizing energy losses and operational costs.

Control and Monitoring: The UPS features a sophisticated control panel with LED status displays and monitoring graphs, enabling real-time monitoring and configuration. The system supports self-diagnostics and predictive maintenance to ensure continuous operation and reduce the need for frequent shutdowns.

Interfaces: Available interface ports include DB-9 RS-232, RJ-45 10/100 Base-T, and a Smart-Slot for additional communication options. These interfaces facilitate easy integration with network management systems and remote monitoring solutions.

Input and Output Wiring: The unit accepts hardwire, 4-wire (3PH + N) input connections. It provides similar output connections: (1) Hardwire, 4-wire (3PH + N) (Battery Backup), allowing seamless integration into existing electrical infrastructure.

Noise Filtering and Alarms: The sine-wave UPS includes full-time multi-pole noise filtering and an audible alarm system to signal real-time operational status, low battery, and overload conditions.

Operating Conditions: The unit is designed for optimal performance in varying environmental conditions with an operating temperature range from 0°C to 40°C and can operate at altitudes up to 10,000 feet. It is housed in a weatherproof outdoor enclosure, making it suitable for both indoor and harsh outdoor environments.

Mounting: The MT-UPS-3P-480V-400KVA-480V-R1-N3R Series UPS is compatible with surface mounting applications, providing flexibility in installation across different facilities

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.

Smart-UPS
RT
Battery
Pack

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Battery
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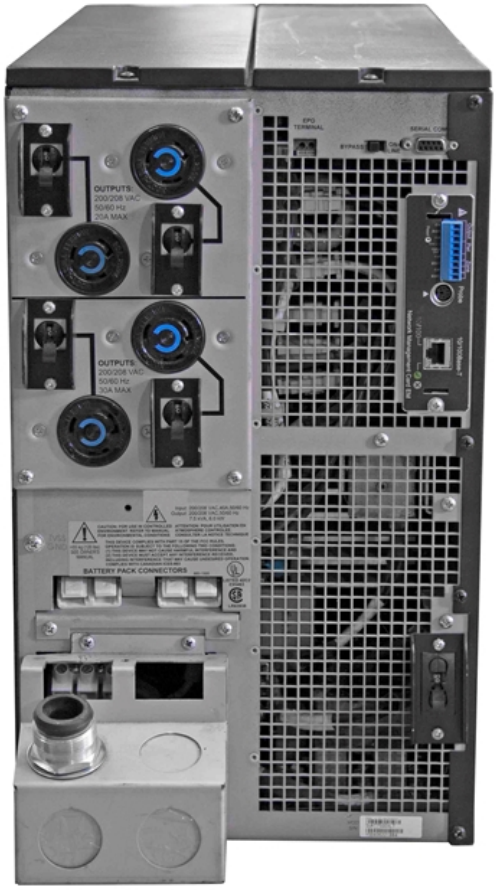
OUTPUTS:
200/208 VAC
50/60 Hz
20A MAX
OUTPUTS
200/208 VAC
50/60 Hz
20A MAX
BATTERY PACK CONNECTORS

Frequently Asked Questions (FAQ)