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MT-UPS-3P-460V-300KVA-460V-R1-N3R

300 KVA Uninterruptible Power Supply - 460V 60Hz, 3PH - 300 KW, NEMA 3R

Product ID: 330797



Image: MT-UPS-3P-460V-300KVA-460V-R1-N3R

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-300KVA-480V-R1-N3R Industrial Battery Backup

Unit Type: Uninterruptible Power Supply
Dimensions: 96"-W x 48"-D x 84"-H (UPS + Battery Cabinets)
Weight: 18,500 lbs (UPS + URLA batteries)
Input Voltage: 460V AC, 3-Phase, 60Hz
Output Voltage: 460V AC, 3-Phase, 60Hz

Output Power Capacity: 300 KW (Modular up to 300 KVA)

Max Configurable Power: 300 KW (Modular up to 300 KVA)
Input Power Factor: ≥0.99 at Full Load

System Efficiency: Up to 96% (Online Mode)

Interrupting Capacity: 65kAIC
Alternative Back-up power technologies: Wet Cell, NiCad, Lithium-ion, Super capacitors
Load Transfer Time: No Break
Output Voltage Distortion: <3% (Linear Load)
Crest Factor: 3:1, Double Conversion Online
Waveform Type: Pure Sine Wave
Battery: Valve-Regulated Lead-Acid (VRLA), UPS-Rated Long-Runtime

Battery Configuration: External Battery Cabinets

Battery Autonomy: Minimum 5 Minutes at 300 kW Full Load
Recharge Time: 6–8 Hours to 90% Capacity
Filtering: Full-Time EMI/RFI Noise Filtering
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
Audible Alarm: Alarm When on Battery, Distinctive Low Battery Alarm and Overload

Ratings/Approvals

Make-Before-Break Maintenance Bypass Switch (MBB)
Static Bypass with Manual Wrap-Around
Redundant Cooling Fans (N+1)
True Online Double-Conversion Topology
Zero Transfer Time (No Break)
Includes Level 1 startup and commissioning to ensure proper installation and initial operation

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: Heavy-Gauge Powder-Coated Steel
Enclosure Finish: Industrial Gray
Mount: Floor-Mounted, Free-Standing Cabinets
Input Connections: Hardwire (3-Phase + Ground)
Output Connections: Hardwire (3-Phase + Ground)
Bypass: Internal Static Bypass + External Make-Before-Break 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
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The MT-UPS-3P-460V-300KVA-460V-R1-N3R is an advanced Industrial Uninterruptible Power Supply (UPS) suitable for demanding environments such as data centers, healthcare facilities, and large industrial plants. This UPS unit operates on a three-phase 460V AC supply and is designed to support high-capacity battery energy storage systems for mission-critical applications.

The MT-UPS-3P-460V-300KVA-460V-R1-N3R provides comprehensive battery backup support for essential equipment in industrial and commercial settings. This 300 kVA / 300 kW UPS system features a three-phase 460V AC, 60Hz input and a three-phase 460V AC, 60Hz output. The unit delivers true online, double-conversion power with zero transfer time to ensure uninterrupted operation during utility power disturbances.

Key Features: Energy Storage Options: The system utilizes UPS-rated URLA batteries (VRLA technology) housed in external battery cabinets. These sealed, maintenance-free lead-acid batteries are configured to provide a minimum of 5 minutes of runtime at full 300 kW load. Recharge time varies depending on load conditions and battery configuration.

Power Conditioning: This UPS provides continuous voltage regulation and protection against surges, sags, harmonic distortion, and electrical noise, ensuring clean, stable sine-wave output to connected loads.

Bypass and Serviceability: The UPS includes an internal static bypass and provisions for a make-before-break maintenance bypass switch, allowing maintenance and servicing to be performed without interrupting power to critical equipment.

Control and Monitoring: The system features an advanced control panel with graphical display for real-time monitoring of input/output status, load levels, battery condition, alarms, and diagnostics. Integrated self-testing and alarm functions support predictive maintenance and reliable long-term operation.

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 3-phase input connections and provides

corresponding hardwire 3-phase output connections for seamless integration into existing electrical systems.

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-460V-300KVA-460V-R1-N3R UPS is housed in a floor-standing, free-standing enclosure, suitable for permanent indoor installation in electrical rooms and data centers.

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