

MT-LCVR-250KVA-380.400.415D-380.400.415D-3P-50.60HZ-N1-M1

250 kVA Power Conditioner / Electronic Voltage Regulator - 380/400/415V Delta 3PH Input - 380/400/415V Delta 3PH Output - NEMA 1

Product ID: 337836

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



Image: MT-LCVR-250KVA-380.400.415D-380.400.415D-3P-50.60HZ-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-LCVR-250KVA-380.400.415D-380.400.415D-3P-50.60HZ-N1-M1 Power Conditioner / Electronic Voltage Regulator

Unit Type: Servo Motor Controlled Power Conditioner / Voltage Regulator

Dimensions: 1800 x 850 x 1450 mm (70.9" x 33.5" x 57.1")

Weight: 2,425 lbs. (1100 kg)

Capacity: 250 kVA / 200 kW

Input Voltage: 380/400/415V AC Delta 3PH

Input Voltage Range: -40% / +25% (Standard)

Optional Input Range: $\pm 25\%$ or -70% / $+25\%$

Input Frequency: 50/60 Hz Selectable

Output Voltage: 380/400/415V AC Delta 3PH

Output Voltage Regulation: $\pm 1\%$

Output Frequency: 50/60 Hz Selectable

Power Factor: 0.8

Waveform: Pure Sine Wave

Crest Factor: 3:1 (Optional 0,9 and 1)

Overload Capability: 100%–110%: 1 Hour; 110%–150%: 30 Minutes; >150%: 10 Minutes

Overall Efficiency: $\geq 94\%$ @ 100% Rated Load

ECO Mode Efficiency: $\geq 98\%$ @ 100% Rated Load (Optional)

Regulation Speed: 50–200 VAC/sec

Ratings/Approvals

Indoor Use (NEMA 1)

Microprocessor Control Technology

Smart Variac System

High Reliability

Remote Wi-Fi Control (Optional)

Modbus / BACnet IP Communication (Optional)

Smart Air Cooling

User Friendly LCD Screen

EMI / RFI Filter

Silent Operation

Reverse Current Protection

Surge & Overload Protection

Suitable for Industrial Applications

Suitable for Data Centers & Medical Facilities

Suitable for Transport & Emergency Systems

Works with Google Home / eWeLink (Optional)

Operating Temperature: -10°C to +50°C
Storage Temperature: -25°C to +70°C
Relative Humidity: 20%–90% Non-Condensing
Audible Noise: <50 dBA
Cooling Type: Smart Air Cooling
Connection Type: Terminal
Construction: Steel Enclosure
Form Factor: Tower Type Cabinet
Mounting: Floor Mount
Color: Natural Gray

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 Larson Electronics MT-LCVR-250KVA-380.400.415D-380.400.415D-3P-50.60HZ-N1-M1 Power Conditioner / Electronic Voltage Regulator is designed to protect sensitive industrial equipment and electrical systems from voltage fluctuations, brownouts, surges and unstable utility power. This 250 kVA unit supports three-phase 380/400/415V AC Delta input and three-phase 380/400/415V AC Delta output with $\pm 1\%$ voltage regulation accuracy. The servo motor controlled voltage regulator features microprocessor-based controls, smart air cooling and a compact tower-style enclosure suitable for indoor industrial environments.

****PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS****

The MT-LCVR-250KVA-380.400.415D-380.400.415D-3P-50.60HZ-N1-M1 provides reliable voltage stabilization for industrial operations, data centers, transport systems, medical facilities and emergency applications. This 250 kVA unit operates with selectable 50/60 Hz frequency and supports a standard input voltage range of -40% to +25%, with optional extended ranges available. Output voltage regulation is maintained at $\pm 1\%$ for stable power delivery to critical loads and sensitive electronics. The unit delivers pure sine wave output with a 3:1 crest factor and a regulation speed of 50-200 VAC per second for rapid response to incoming power fluctuations. Overload capability includes 100%-110% for one hour, 110%-150% for thirty minutes and over 150% for ten minutes. Overall efficiency is rated at $\geq 94\%$ at full load, with optional ECO mode efficiency up to 98%.

The MT-LCVR-250KVA-380.400.415D-380.400.415D-3P-50.60HZ-N1-M1 features microprocessor control technology with a user-friendly LCD display for monitoring and operation. The voltage regulator utilizes a servo motor controlled smart variac system for dependable long-term performance and silent operation. Additional features include EMI/RFI filtering, reverse current protection, overload protection, over-temperature protection and surge protection. Optional remote Wi-Fi monitoring and Modbus/BACnet IP communication interfaces are available for advanced control integration.

Constructed in a heavy-duty steel tower enclosure, the unit is designed for floor-mounted indoor operation and carries an IP20 protection rating. Smart air cooling maintains operating temperatures without excessive noise, with audible noise levels below 50 dBA. The enclosure measures 1800 mm x 850 mm x 1450 mm and weighs approximately 1100 kilograms.

Applications: Industrial facilities, manufacturing plants, data centers, medical facilities, transport systems, emergency backup systems, automation equipment, processing plants, sensitive electronic equipment protection, power conditioning, voltage stabilization and more.

At Larson Electronics, we do more than meet your lighting and power distribution needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting or power distribution 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.



Frequently Asked Questions (FAQ)

There are no Faqs



Export Control Classification Number (ECCN): EAR99



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