

MT-PCR-3P-480Y-300KVA-480Y-60HZ-M1

300 KVA Solid-State Voltage Regulator - Power Conditioner - 480Y/277 3PH Wye - Isolates EMI
Product ID: 323039



Image: MT-PCR-3P-480Y-300KVA-480Y-60HZ-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-PCR-3P-480Y-300KVA-480Y-60HZ-M2 Voltage Regulator and Power Conditioner

Unit Type: Solid-State Voltage Regulator and Power Conditioner

Dimensions: 59" x 33.8" x 55.9"

Weight: 1,763.7 lbs

Input Voltage: 480Y/277 V Wye +/- 10% (188-228V Input Range)

Input Frequency: 50/60 Hz +/- 510

Capacity: 300 KVA - 100% Load - 30 Mins

Output Voltage: 480Y/277 V Wye +/- 1%

Output Frequency: 60 Hz +/- 1%

Rectification: IGBT

Efficiency Ratio: Up to 95%

Load Stabilization Rate: < +/- 1%

Frequency Stability: < +/- 0.01%

Harmonic Distortion: Pure Sine Wave < 2%

4-digit Meters: Digital Frequency Meter - Resolution 0.1Hz/Step; Digital Voltage Meter- Resolution 0.1V; Digital Ammeter- Resolution 0.1A; Digital Watt Meter- Resolution 0.1W

Protection: Overload, Short Circuit, Over Temp, Instant Power Failure Protection, Alarm

Operating Temp: 0-40°

Humidity: 0-90% (Non-condensation)

Mounting: Mobile Cart w/ Wheels

Color: Tan

Features/Ratings

NRTL Listed to UL 508A

Advanced Microprocessor Control

True Online Double Conversion

Smart Fan Control

Low Input THDi < 3%

Isolates EMI

Special Orders - Special Requirements

Contact us for special requirements

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The MT-PCR-3P-480Y-300KVA-480Y-60HZ-M1 from Larson Electronics is a Solid-State Voltage Regulator (SSVR) and Power Conditioner. It's an electronic device designed to regulate and condition electrical power. When considering its regen (regenerative)

power handling capabilities, it's essential to understand a few key aspects of their design and functionality:

Solid-State Voltage Regulator (SSVR): This device controls and maintains a constant output voltage regardless of fluctuations in the input voltage or load conditions. It is typically used to protect sensitive equipment from voltage surges, sags, and noise.

Power Conditioner: This device goes beyond simple voltage regulation and also filters out electrical noise, harmonics, and transients. It provides clean, stable power to sensitive equipment like computers, medical devices, or industrial machinery.

The MT-PCR-3P-480Y-300KVA-480Y-60HZ-M1 can be used to accurately regulate voltages and frequencies in industrial sites. This 300 KVA unit works for $\pm 10\%$ of 480Y/277 V Wye, 50/60 Hz and will regulate the output voltage to within $\pm 1\%$ of 480Y/277 V Wye, 60 Hz. During operation, rectification is completed via IGBT. The voltage regulator and power conditioner isolate EMI and provide robust microprocessor control, true online double conversion and active input power factor correction.

This solid-state voltage regulator and power conditioner is equipped with several protective features, including overload, short circuit, over temp, instant power failure connection, and alarm. For efficient operation, the unit features smart fan control and ultra high efficiency (98% in Smart Eco Mode). Operators are provided access to a panel, which houses various controls for meters. Available meter components include digital frequency meter, digital voltage meter, digital ammeter, and digital watt meter.

Mounting: The MT-PCR-3P-480Y-300KVA-480Y-60HZ-M1 is secured inside a mobile enclosure with wheels for seamless mobility around the work site.

Applications: Industrial facilities, laboratories, air compressor testing, power supply testing, motor equipment testing, quality assurance, lighting systems, and more.

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