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MT-IVT-390VDC-225KVA-480VAC-R2

225 KVA DC to AC Grid-Tied Inverter - 390V DC (300-500 VDC) to 480V AC - 225 KW Continuous - NEMA 4X - UL1741 (SA/SB) listed - Bidirectional

Product ID: 341757



Image: MT-IVT-390VDC-225KVA-480VAC-R2

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-IVT-390VDC-225KVA-480VAC-R2 DC to AC Power Inverter

Unit Type: DC to AC Inverter, Grid-Tied
Dimensions*: 30" W × 24" D × 48" H
Weight*: 350 Lbs
Phase: Three Phase
Input Voltage: 390V DC (300-500V DC Range)
Rated Voltage: 600V DC, Maximum
Rated Input Current: 780ADC (Max.)
Output Voltage: 480V AC ±10%, 3 PH
Rated Output Current: 271A AC
Output Power Factor: >0.99
Frequency: 60 Hz
L_{PL}: 5.3 nH
DC Link Capacitance: 300uF
Power Density: 32 kW/L
Controller: Included
Rated output power: 225 kW
Max. apparent output power: 225 kVA
Rated Grid Frequency: 50 Hz / 60 Hz
Waveform: True Sine Wave
Max. Efficiency: 99.0%
DC Reverse-polarity Protection: Included
Short-circuit Protection: Included
Output Overcurrent Protection: Included
Surge protection: DC Type II / AC Type II
Grid monitoring: Included

Ratings/Features

UL1741 (SA/SB) listed
NEMA 4X
Bidirectional inverter
LED Display
DC precharge circuit
Compatible with MasterBus
Natural Forced Cooling
Regulates DC Voltage/link

Anti-islanding protection: Included
Temperature protection: Included
String monitoring: Included
I/V Curve scanning: Included
Night-time SVG function: Included
Integrated PID recovery: Included
Integrated DC switch: Included
Topology: Transformerless
Self-consumption (night): < 3 W
Operating ambient temperature range: -40 ~ + 50°C
Relative humidity: 0-100%
Ingress protection: NEMA 4X
Cooling medium: Liquid cooled cold plate
Cooling concept: Intelligent fan-cooling
Max. operation altitude: 13,123ft Above Sea Level
DC connection: MC4-EVO2 connector
AC connection: IOT terminal (max. 750MCM)
Display: LED indicator & Bluetooth + APP
Communication: WIFI/Ethernet
*Approximate numbers and subject to change.

Special Orders - Special Requirements
Contact us for special requirements
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The Larson Electronics MT-IVT-390VDC-225KVA-480VAC-R2 DC to AC Inverter converts DC input to AC output in industrial sites. This power converter is rated at 225 KW continuous and offers 390V DC input and 480V AC output @ 50/60 Hz. The NEMA 4X rated device offers the following protective features: short circuit, overload, over temperature, high battery and low battery.

The MT-IVT-390VDC-225KVA-480VAC-R2 provides a safe and effective way for users to tap into and utilize 390V DC power sources and step up this current to 480V AC. Rated at 225 kilo-watts (continuous), this true sine wave unit can be operated with low voltage 390V DC input current and 480V AC output current. Output frequency is 50/60Hz, adjustable. The transformer provides short circuit, overload, overtemperature, high battery and low battery protection. The recommended battery capacity is 300aH minimum.

This DC to AC inverter offers a -40°C to +50°C operating temperature range. The unit has a 99% conversion efficiency and is MasterBus compatible. Cooling is facilitated by natural and forced mechanisms. Powered by V6 HF switch mode technology, the power converter features an LED display for real-time monitoring.

Wiring/Connections: AC connections can be completed inside the unit. This inverter accepts 750MCM maximum cable size.

Mounting: The MT-IVT-390VDC-225KVA-480VAC-R2 caters to surface and wall mounting applications via openings on the back of the transformer.

Applications: Voltage rectification, power conversion, DC to AC transformer, DC to AC conversion, solar-powered systems, power supply, engine rooms 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