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MT-IVT-250VDC-2.5KVA-120VAC-R2

2.5 KVA DC to AC Inverter - 250V DC to 120V AC - 50/60Hz - Hard Wire AC Output - Surface Mount

Product ID: 322280

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



Image: MT-IVT-250VDC-2.5KVA-120VAC-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-250VDC-2.5KVA-120VAC-R2 DC to AC Inverter

Unit Type: DC to AC Inverter
Dimensions: 10.04" x 6.22" x 17.40"
Weight: 17 lbs
Line In Voltage: 250V DC
Line Out Voltage: 120V AC, 1-PH (+/- 5% - 100V AC, 110V AC, 115V AC, 120V AC)
Rated Power: 2 kVA
Output Frequency: 50/60 Hz (+/- 5%)
Output Current Rating: 16.5 A continuous @ 120V AC
Waveform: Pure Sine Wave
Efficiency: 90%
Full Load Efficiency: 90%
Output Overload/Short: Shutdown Output Voltage, Restart to Recovery
DC Input Reverse Polarity: Fuse
LED Indicators: (3) Input Voltage Level, Output Load Level, Faulty Status
Cooling: Temperature/Load Controlled Cooling Fan
Input Protection: Reverse Polarity (Fuse), Under Voltage, Over Voltage
Output Protection: Short Circuit, Overload, Over Temperature
Surge Protection: 6,000W for 3–5 sec (≥ 3× surge)
Operating Temp:

Ratings/Features

Certified FCC Class A
DIP Switch Selectable Output Voltage/Frequency
Adjustable Power Saving Mode
Advanced Microprocessor
Fully Isolated Input/Output
CSA 22.2 /CUL certified

-20°C to +40°C
Storage Temp: -30°C to +70°C
Storage Temp Humidity: 10 to 95% RH
Materials: -
Mount: Surface
DC Input: +/- Terminals (#4/0 AWG)
AC Output: Hard Wire
Color: Blue, Black

Special Orders - Special Requirements
Contact us for special requirements
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The Larson Electronics MT-IVT-250VDC-2.5KVA-120VAC-R2 inverter converts DC input to AC output in industrial sites. This fan-cooled power inverter is rated at 2.5 kVA (2,000W continuous) and offers 250V DC input and 120V AC output @ 50/60 Hz. Designed for surface-mounting applications, AC output is accessible via hard wiring.

The MT-IVT-250VDC-2.5KVA-120VAC-R2 provides a safe and effective way for users to tap into and utilize 250V DC power sources and step this current down to 120V AC. Rated at 2.5 kVA, this pure sine wave unit can be operated with an input voltage of 250V DC and an output voltage ranging from 100V AC to 120V AC (selectable via DIP switch). Output frequency is 50/60 Hz ±5%, also selectable via DIP switch. The inverter includes built-in protection for reverse polarity (fuse), under voltage, over voltage, short circuit, overload, and over temperature. Surge protection threshold is rated at 3,000W for 1 minute.

This DC to AC inverter supports an operating temperature range of -20°C to +40°C. It features a 90% maximum conversion efficiency and a fully isolated input/output circuit. Cooling is facilitated via a temperature/load-controlled fan. Powered by an advanced microprocessor for ease of use, the inverter features three LED indicators for real-time monitoring (Input Voltage, Output Load, and Fault Status).

Wiring/Connections: DC input is facilitated by DC +/- input terminals (#4/0 AWG). Hard-wiring is required on the output side for AC power. This unit is compatible with a remote control (not included).

Mounting: The MT-IVT-250VDC-2.5KVA-120VAC-R2 caters to surface mounting applications via four openings on the back of the inverter.

NOTE: In order to obtain the best performance and the longest operational life from these units, it is recommended that you do not exceed 75% of the unit's output amperage. To determine if this inverter suits your desired application, add together the total wattage of the equipment you intend to use with this unit and divide this total by 250 volts to find the total amperage draw that will be placed upon the inverter. For example, if you are using one of our 240 watt LED lights, 2000 watts divided by 120 volts is 12 amps. Running these units at 100% of their capacity can create excess heat and lead to shortened inverter life.

Applications: Voltage rectification, power conversion, DC to AC transformer, DC to AC conversion 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

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