Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

MT-IVT-125VDC-1000W-220VAC-R1

1000 W DC to AC Inverter - 125V DC to 220V AC - 50/60Hz - Hard Wire AC Output - Surface Mount

Product ID: 344434



Image: MT-IVT-125VDC-1000W-220VAC-R1

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-125VDC-1000W-120VAC-R1 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: 125V DC
Line Out Voltage: 220V AC, 1-PH (±5%)
Rated Power: 1000 W
Output Frequency: 50/60 Hz (+/- 5%)
Output Current Rating: 4.55 A
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: 2000W for 1 Minute
Operating Temp: -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

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

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-214-616-6180
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The MT-IVT-125VDC-1000W-220VAC-R1 from Larson Electronics is an Inverter that converts DC input to AC output in industrial sites. This fan-cooled power inverter is rated at 1000 watts and offers 125V DC input and 220V AC output @ 50/60 Hz. Designed for surface-mounting applications, AC output is accessible via hard wiring.

The MT-IVT-125VDC-1000W-220VAC-R1 provides a safe and effective way for users to tap into and utilize 125V DC power sources and step up this current to 220V AC. Rated at 1000 watts, this pure sine wave unit can be operated with an input voltage of 125V DC and an output current ranging from 100V AC to 220V AC (output voltage is selectable via a DIP switch). Output frequency is 50/60 Hz +/- 5%, also selectable using a DIP switch. The inverter provides reverse polarity (fuse), under voltage and over voltage input protection and short circuit, overload and over temperature output protection. Threshold for surge protection is 2000 watts @ 1 minute.

This DC to AC inverter offers a -20°C to +40°C operating temperature range. The unit has a 90% maximum conversion efficiency and fully isolated input/output. Cooling is facilitated by a temperature/load controlled cooling fan. Powered by an advanced microprocessor for ease of use, the power inverter features three LED indicator lights for real-time monitoring.

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-125VDC-1000W-220VAC-R1 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