

MT-IVT-740VDC-500KVA-480VAC-R2

500 KVA DC to AC Inverter - 740V DC to 480V AC - 500 KW Continuous - NEMA 4

Product ID: 338560



Image: MT-IVT-740VDC-500KVA-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-740VDC-500KVA-480VAC-R2 DC to AC Power Inverter

Unit Type: DC to AC Inverter

Dimensions: 119-3/4"-W x 99-1/8"-H x 45-5/8"-D

Weight: 8,750 lbs

Phase: Three Phase

DC Inputs

Array Configuration: Negative ground

Maximum Operating Input Current: 1600A DC

Max. Input Voltage: 740V DC

MPPT Voltage Range: 310-595 V DC

Open-Circuit Turn-On Voltage: 330 V DC

Ratings/Features

NEMA 4

Natural Forced Cooling

Compatible with MasterBus

Complies with FCC Class A

Complies with UL 1741

Complies with IEEE 519

Complies with IEEE 1547

Complies with IEEE 929

Complies with CSA 107.1-1

10 year Warranty

AC Outputs

Continuous Output Power: 500 kVA

Nominal Voltage: 480Y/277, 3PH, 4 Wire, Grounded Wye

Operating Voltage Range: -12% / +10%

Bus Rating: 800 A

Main Breaker Rating: 600 A

Short Circuit Fault Current: 891 A RMS @ 480 VAC, 60.3 ms

Nominal Frequency: 60 Hz, 59.3 - 60.5 Hz Range, Adjustable to 57.0 Hz

Total Harmonic Distortion: < 3% THD

Efficiency Peak / CEC: 97.8% / 97.0%

Standby Losses: < 80 W

Inverter Controls and Monitoring

Power Factor: > 0.99 at rated power; ± 0.90 PF range, ± 217 kVAr max

Power Curtailment: 5 - 100%, 1% increments

Communication Interfaces and Protocols: RS-485, Ethernet, Modbus, TCP/IP

Battery Communication Module: Included, Programmable

Operating ambient temperature range: -30 ~ + 55°C

Storage ambient temperature range: -40 ~ + 60°C

Relative humidity: 0 - 95%

Elevation: 6000 ft Above Sea Level

Ingress protection: NEMA 4

Enclosure Material: Powder-coated steel

Cooling concept: Intelligent fan-cooling

Mounting: Pad mount

Isolation Transformer: Integrated

Integrated AC/DC Disconnect: Optional AC disconnect, DC breakers

AC and DC Surge Protection: Included

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

The Larson Electronics MT-IVT-740VDC-500KVA-480VAC-R2 DC to AC Inverter converts DC input to AC output in industrial sites. This power converter is rated at 500 KVA continuous and offers 740V DC input and 480V AC output @ 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-740VDC-500KVA-480VAC-R2 provides a safe and effective way for users to tap into and utilize 740V DC power sources and step up this current to 480V AC. Rated at 500 kilo-watts (continuous), this true sine wave unit can be operated with low voltage 740V DC input voltage and 480V AC output voltage. Output frequency is 60Hz, adjustable. The inverter provides short circuit, overload, over temperature, high battery and low battery protection.

This DC to AC inverter offers a -30°C to +55°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-740VDC-500KVA-480VAC-R2 caters to surface and wall mounting applications via openings on the back of the inverter.

Applications: Voltage rectification, power conversion, DC to AC inverter, 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.



Frequently Asked Questions (FAQ)

There are no Faqs