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

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

MT-IVT-400VDC-9.4KVA-208.240VAC-R2

9.4 KVA DC to AC Inverter - 400V DC to 208/240V AC - 5.2/6 KW Continuous AC Nominal Power - NEMA 4X

Product ID: 309251



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-400VDC-9.4KVA-208.240VAC-R2 DC to AC Power Inverter

Unit Type: DC to AC Inverter

Input Data (PV):

Max. Recommended PV Power(STC): 12000W
DC/AC Ratio: 2
Max. DC System Voltage: 600V
Startup Voltage: 80V
Full load voltage range: 160-500V
Nominal Voltage: 360V
Operating Voltage Range: 50~550V
No. of MPPT : 3
No. of PV Strings per MPPT: 2/2/2
Max. Input Current per MPPT: 13.5A
Max. Short-circuit Current per MPPT: 16.9A

Input / Output Data (Battery):
I/O Voltage Range: 360V~550V

Nominal DC Voltage: 400V

I/O DC Current: 17.2A
I/O DC Power: 6200W
Battery Technology : LFP
Battery Capacity per Module: 3.3kWh

Scalability: 6.6~39.6kWh

Output Data (AC):

AC Nominal Power@240V AC: 6000W

Ratings:

NEMA 4X
Conforms to UL STD1741
Conforms to UL STD1741SA
Conforms to UL STD1741SB,
Conforms to UL STD1699B,
Conforms to IEEE STD.1547
Conforms to IEEE STD1547.1
Conforms to HECO SRD-IEEE-1547.1,
Conforms to CSA STD C22.2 NO.107.1
Conforms to UL9540
Conforms to FCC Part15 Class B

Ratings:

Battery Ready for DC Coupled and AC Coupled systems
With backup power and dark start operations
Support RSD and AFCI
Support multiple energy management modes: Self-consumption, Zero Export, TOU and Off-grid
Comply with UL1741SA/SB, CA Rule 21 & HECO

AC Nominal Power@208V AC: 5200W

Max. AC Apparent Power: 6000VA

Nominal AC Voltage: 208V/240V

AC Voltage Range @208V AC @240V AC: 183V~229V/211V~264V

AC Grid Frequency: 50/60Hz

AC Grid Frequency Range: 45~65Hz

Max. Output Current: 25A

Max. Output Overcurrent Protection: 40A

Power Factor(@Nominal Power): >0.99

Adjustable Power Factor: 0.8 Leading~0.8 Lagging

THDi : 3%

AC Grid Connection Type: L1/L2/N/PE

Output Data (Backup):

AC Nominal Power: 6000W

Max. AC Power Output: 9400VA

Nominal AC Voltage: 240V

Max. Output Current: 40A

THD: 2% linear load, 5% non-linear load
AC Port-V2 inverter: 2AC Ports, 1 for ON Grid, 1 for Backup(EPS) compatible with ATS-US for Partial Home Backup
AC Port-V3 Inverter: 1AC Port for 1 ON Grid compatible with SYN200-US for Whole Home Backup

Efficiency:

Max. Efficiency: 98.4%

CEC Efficiency@240V AC: 97.0%

CEC Efficiency@208V AC: 97.0%

Protection Devices:

DC Reverse-polarity Protection: Included

DC Switch: Included

DC Surge Protection: Included, Type II

Insulation Resistance Monitoring: Included

AC Surge Protection: Included, Type III

AC Short-circuit Protection: Included

Ground Fault Monitoring: Included

Grid Monitoring: Included

Anti-islanding Protection: Included

Residual-current Monitoring Unit: Included

AFCI Protection: 3

Interfaces:

RS485: Included

WIFI/4G Communication: Included

Revenue Grade Meter: ANSI C12.20 (meet 0.5% accuracy)

Warrant: 10 Years

General Data:

Relative Humidity: 0~95%

Electronics Protection Degree: NEMA4X

Cooling: Natural Convection

Internal Consumption at Night: <1W (for PV inverter)/<5W (for storage inverter)
Altitude: 9843ft
Operating Temperature Range: –25 °C ~ +60 °C)

Weight: 32.3 lbs

Dimensions: 15.75 "-W, 6.98"-D, 22.41"-H

Special Orders - Special Requirements
Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Color: Grey

Mounting: Wall Mounted Through A Mounting Bracket

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The Larson Electronics MT-IVT-400VDC-9.4KVA-208.240VAC-R2 DC to AC Inverter converts DC input to AC output in industrial sites. This power converter is rated at 9.4 KVA continuous and offers 400V DC input and 208/240V 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-400VDC-9.4KVA-208.240VAC-R2 provides a safe and effective way for users to tap into and utilize 400V DC power sources and step up this current to 208/240V AC. Rated at 9.4 KVA (continuous), this true sine wave unit can be operated with low voltage 400V DC input current and 208/240V AC output current. Output frequency is 50/60Hz, adjustable. The transformer provides short circuit, overload, over temperature, high battery and low battery protection. Peak wattage for this unit is 12,000W (short-term use only, not for extended periods). The recommended battery capacity is 14.1 kWH minimum.
This DC to AC transformer offers a -25°C to 60°C operating temperature range. The unit has a 98.2% 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 8 AWG minimum cable size.
Mounting: The MT-IVT-400VDC-9.4KVA-208.240VAC-R2 is wall mounted through a mounting bracket.
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.

Frequently Asked Questions (FAQ)