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MT-GPU-3P-480D-50.60HZ-90KVA-200Y.115-400HZ-N3S-M1

90 KVA 3PH Inverter Transformer for Ground Power Units, 480V Delta, 50/60 Hz Primary, 200Y/115 V Wye-N, 400Hz, 3Ph Secondary, 93 A, NEMA 3S

Product ID: 314658

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



Image: MT-GPU-3P-480D-50.60HZ-90KVA-200Y.115-400HZ-N3S-M1

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-GPU-3P-480D-50.60HZ-90KVA-200Y.115-400HZ-N3S-M1 Inverter Transformer for Ground Power Units

Transformer Type: Inverter Transformer
Transformer Configuration: Dry Type
Phase: Three Phase
Input Frequency: 50/60 Hz ± 5%
Input Voltage: 480VAC +/-10%, 93A PF0.8 / 117A PF1, 50/60Hz +/-5Hz
Input Connection: 3-Phase+N+G
Capacity: 90 KVA
Output Frequency: 400 Hz, Fixed
Output Voltage: 200Y/115 V AC
Output Connection: 3-Phase+N+G
Output Waveform: ≤ 2 % (no load or 100% linear load)
Output TDH: ≤ 3%
Efficiency: ≤ 85%
Display Mode: LED Display
Display Resolution: Four-digit voltage display, resolution 0.1V, Four-digit frequency display, resolution 0.1Hz, Four-digit current display, resolution 0.01A
Protection function: The output has no fuse switch, and has protection functions such as

Approvals/Ratings

NRTL Listed for United States
NRTL Listed for Canada
NEMA 3S Indoor/Outdoor Steel Enclosure
Meets or Exceeds NEMA ST-20 Standards
Isolation Transformer
Seismic Qualified for Earthquake Loads
Built to UL-50 Standards
CE Certified
RoHS
Unit has integrated Line Drop Compensation (LDC) capability of 400ft Plus without additional permanent components/products
12-pulse rectifier PWM inverter
Unit capable of Plug & Play voltage regulation
Neutral Conductor rupture supervision
Operation & Maintenance Manual
Does NOT include Output Cable
Does NOT include Input Cable

overload, short circuit, over temperature, over current, overvoltage, etc. It has automatic sound and light alarm. Alarm indicator light display

Modulation: IGBT SPWM
Power Factor: 0.8
Voltage Stability: ± 1%
Frequency Stability: ± 0.01%
Interface: Modbus Protocol. RS232/RS485 communication port
Termination Access: Front Access Cover
Mounting: Fixed on Trolley
Cooling: Air/Dry
Insulation: 220°C
Temperature Rise: 150°C
Sound Level: ≤ 75 dBA ,at 1-1.5m
Ambient Temperature Range: -30 □~ + 50 □
Relative Humidity: ≤ 95% (no water droplets condensation)
Altitude: ≤ 9850ft
Enclosure Material: NEMA Type 3S Heavy Duty Ventilated - Steel
Finish: Gray-White (RAL 7035)
Dimensions: 59.06"-W x 36.61"-D x 35.43"-H
Weight: 1873.93 lbs
Shipping Method: Pallet Freight - LTL
Shipping Weight: TBD
Shipping Dimensions: TBD

Warranty: 2 Years per ITW GSE's standard terms
AP-578803: Base module
JB8816-60SG: 400hz, 260amp, 60ft long cable assembly with replaceable contact section and orange scuff jacket
JB8816-60: 400hz, 260amp, 60ft long cable assembly with replaceable contact section.
Start-Up & Training

Special Orders - Special Requirements
Contact us for special requirements
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The MT-GPU-3P-480D-50.60HZ-90KVA-200Y.115-400HZ-N3S-M1 Three Phase 480V to 200Y/115 90 KVA Inverter Transformer for Ground Power Units from Larson Electronics is powerful, reliable, and designed with the environment in mind. Suitable for both indoor and outdoor applications, the MT-GPU-3P-480D-50.60HZ-90KVA-200Y.115-400HZ-N3S-M1 provides increased reliability and protection against critical equipment failures.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*

Transformer Features: The MT-GPU-3P-480D-50.60HZ-90KVA-200Y.115-400HZ-N3S-M1 Inverter transformer is a three phase transformer with a 90 KVA capacity rating. This inverter transformer is configured with an input voltage of 480V, 50/60 Hz 3-Phase AC on the primary side and an output voltage of 200Y/115 Wye-N, 400 Hz 3-Phase AC on the secondary side. Featuring robust construction, this unit's cores are manufactured with non-aging, cold-rolled silicon steel laminations using state of the art technology.

This unit boasts a low cost of ownership and is highly energy efficient. Lower heat emissions mean less cooling is needed as well. The standard NEMA Type 3S enclosure makes the unit suitable for both indoor and outdoor applications and is designed to be floor mounted. Wall mount brackets or additional mounting accessories can be purchased separately. This 90 KVA distribution transformer features 220°C insulation with a 150°C temperature rise.

Benefits: The MT-GPU-3P-480D-50.60HZ-90KVA-200Y.115-400HZ-N3S-M1 480V to 200Y/115 general purpose transformer offers many benefits to the consumer. Precision cut aluminum transformer winding material help to improve performance. The close tolerances used during manufacturing also eliminates burrs which hinder performance. Each core is

specially coated to prevent the ingress of moisture and are electrically balanced to minimize axial forces during short circuit situations.

This transformer provides owners with significant energy savings as well as offering environmental benefits. Higher efficiency not only extends the life of the transformer, but also turn into cost savings for owners in the form of lower energy bills and decreased cost of ownership. Integrated floor and wall mounting brackets make installation fast and easy and the offset outward facing floor installation holes allow for easy power tool access.

The MT-GPU series of isolation transformers from Larson Electronics meet or exceed efficiency standards for United States and Canada. This results is overall lower cost of ownership throughout the life of the transformer.

Safety: The MT-GPU-3P-480D-50.60HZ-90KVA-200Y.115-400HZ-N3S-M1 is an isolation transformer which means that it provides operators with an increased level of protection against electric shock and injury. An isolation transformer can also suppress electrical noise in sensitive devices and transfer power between two circuits which must not be connected. The MT-GPU-3P-480D-50.60HZ-90KVA-200Y.115-400HZ-N3S-M1 achieves these safety features by separating or "isolating" the powered device from the power source and insulation between the primary and secondary power sources.

Applications: Converting 480V local grid power to 200Y/115 for on-site equipment. This 90 KVA power transformer is ideal for sensitive equipment such as CNC equipment, computers, medical devices, ovens, or laboratory instruments.

Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

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Frequently Asked Questions (FAQ)

There are no Faqs

Warranty: 24 Months.

Export Control Classification Number (ECCN): EAR99

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