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MT-GPU-R7-3P-400Y.230VAC-50.60HZ-140KVA-200Y.115VAC.28VDC-400HZ-N3-M1

140 KVA 3PH Towable Ground Power Unit, 400Y/230V AC Wye-N, 50/60 Hz Primary, 200Y/115V AC Wye-N x 28V DC Secondary, NEMA 3

Product ID: 330552



Image: MT-GPU-R7-3P-400Y.230VAC-50.60HZ-140KVA-200Y.115VAC.28VDC-400HZ-N3-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-R7-3P-400Y.230VAC-50.60HZ-140KVA-200Y.115VAC.28VDC-400HZ-N3-M1
Towable Ground Power Unit
Unit Type: Towable Ground Power Unit
Configuration: Diesel Engine + Generator System

Engine & Generator Parameters
Engine Type: Diesel internal combustion engine
Starting System: Electric starter
Electrical System Voltage: 12V
Cooling System: Closed water cooling
Diesel Generator Output: 3×400 V, N, PE
Fuel Tank Capacity: Sufficient for 8 hours at 100% load
Hour Meter: Included
Pre-start Heater: Autonomous engine heater

GPU AC Input Specifications
Input Frequency: 50/60 Hz ± 5%
Input Voltage: 400Y/230V AC
Input Connection: 3-Phase+N+G
Capacity: 140 kVA

GPU AC Output Specifications
Output Frequency: 400 Hz (360–420 Hz)
Output Voltage: 200Y/115V AC

Approvals/Ratings
NRTL Listed for United States
NRTL Listed for Canada
NEMA 3 Indoor/Outdoor Steel Enclosure
Meets or Exceeds NEMA ST-20 Standards
Seismic Qualified for Earthquake Loads
Built to UL-50 Standards
CE Certified
RoHS

Output Voltage Adjustment Range: 104–126 V

Load Change Range: 0–100%

Sinusoidal Distortion Factor: ≤ 3%

Amplitude Modulation Factor: ≤ 1.5%

Efficiency: ≥ 97%

Automatic Voltage Drop Compensation: Included

Overload Capability: 110% for 600 sec

Output Connection: AC External Cables (50 FT)

Interlock: ON/OFF, MIL/CIV

Error History: Up to 100 events (via USB adapter)

GPU DC Output Specifications

Rated Output Current: 800A

Rated Output Voltage: 28V DC

Voltage Stabilization Accuracy: ± 0.5 V

Efficiency (Nominal Mode): ≥ 97%

Output Connection: DC External Cables (50 FT)

Interlock: ON/OFF

Error History: Up to 100 events (via USB adapter)

Overload Protection: 1200 A – 30 s, 1800 A – 10 s, 2500 A – 2 s

Protection & Safety Features

Overheat Protection: Included

Voltage Protection: Lack/excess at input & output

Overload Protection: Included

Frequency Protection: Lack/excess frequency

Short Circuit Protection: At input & output

Automatic Shutdown Triggers: Low oil level, low voltage, high coolant temperature, engine overspeed

Emergency Stop: Button for instantaneous stop of all systems

Display & Control

Panel: Parameters Displayed

Main Control Panel: Alarms & errors, voltage, current, frequency, start/stop, engine failure signal

Diesel Power Source Panel: Engine speed, engine temperature, oil pressure, engine hours counter

Mounting: Towable Chassis, Heavy Duty Frame

Wheels: Tubeless, solid

Guides for Loader: Included

Flashing Beacon: Roof-mounted

Grounding Bolt: On body

Anti-corrosion Coating: Body & chassis

Parking Brake: Engages in vertical tiller position

Ambient Temperature Range: -40□~ +55□

Relative Humidity: 10-100%, Non-Condensating

Sound Level: ≤ 65 dBA ,at 3.3m, Meets international standards

Enclosure Material: Composite (plastic)

Finish: White

Dimensions: 64.96" W × 126" D × 66.4" H

Special Orders - Special Requirements

Contact us for special requirements

Weight: 6,614 lbs
Shipping Method: Pallet Freight - LTL
Shipping Weight: TBD
Shipping Dimensions: TBD

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The MT-GPU-R7-3P-400Y.230VAC-50.60HZ-140KVA-200Y.115VAC.28VDC-400HZ-N3-M1 Towable Ground Power Unit from Larson Electronics is a diesel-powered, three-phase mobile generator system designed to deliver both 200Y/115V AC, 400 Hz power and 28V DC output for ground support operations. Rugged and reliable, this towable GPU provides critical AC and DC power for aircraft, military, and industrial applications requiring continuous and stable power.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTA28TIONS*

Transformer Features: The MT-GPU-R7-3P-400Y.230VAC-50.60HZ-140KVA-200Y.115VAC.28VDC-400HZ-N3-M1 Ground Power Unit is rated at 140 kVA (112 kW @ 0.8 PF) and is configured to supply 115/200V AC, 3-phase, 4-wire wye, grounded neutral, 400 Hz output, as well as 28V DC at 800 amps continuous / 2000 amps peak for engine starting. This unit meets or exceeds MIL-STD-704F requirements, ensuring reliable operation for mission-critical ground support tasks.

Powered by a heavy-duty diesel engine, the GPU is built on a towable chassis with hand brake and full instrumentation panel. The integrated fuel tank provides 8 hours of continuous operation. Engine and generator protection systems are included, as well as an externally mounted battery disconnect switch for added safety.

The unit ships with two external cable assemblies:
• 28V DC, 4/0 Size, 50 FT
• 115/200V AC, 400 Hz, 2/0 Size, banded, thermal protected, 50 FT

Benefits: The MT-GPU-R7-3P-400Y.230VAC-50.60HZ-140KVA-200Y.115VAC.28VDC-400HZ-N3-M1 Towable GPU offers operators a highly flexible and dependable power source for both AC and DC applications. Its dual-output capability allows it to power avionics systems, lighting, communication gear, and provide direct DC engine starting power. The towable chassis design makes it easy to move between job sites, airports, or remote locations. With built-in overload capability (125% for 5 minutes on AC and DC; 150% for 5 seconds on DC), the unit can handle short-term surges without compromising performance.

This rectifier provides owners with significant energy savings as well as offering environmental benefits. Higher efficiency not only extends the life of the transformer, but also turns 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 from Larson Electronics meets or exceeds efficiency standards for United States and Canada. This results is overall lower cost of ownership throughout the life of the transformer.

Safety: Equipped with engine and generator protection systems, overload safeguards, and an external battery disconnect switch, the MT-GPU-R7-3P-400Y.230VAC-50.60HZ-140KVA-200Y.115VAC.28VDC-400HZ-N3-M1 GPU ensures safe operation in demanding environments. Full instrumentation provides operators with real-time monitoring of voltage, current, and frequency, while integrated cable storage bins ensure secure and organized deployment of power cables.

Applications: Converting 200Y/115V AC local grid power to 28V DC for on-site equipment. This 140 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