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-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**

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



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

**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

**GPU AC Output Specifications**

**Output Frequency:** 400 Hz (360–420 Hz)
**Output Voltage:** 200Y/115V AC
**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
**Weight:** 6,614 lbs

**Special Orders - Special Requirements**

Contact us for special requirements
**Toll Free:**

**Shipping Method:** Pallet Freight - LTL
**Shipping Weight:** TBD
**Shipping Dimensions:** TBD

1-800-369-6671
**Intl:** 1-903-270-1187
**Fax:** 1-903-765-7664
**E-mail:** sales@larsonelectronics.com

**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.

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

# Frequently Asked Questions (FAQ)

There are no Faqs

**Warranty:** 6 Months.

**Export Control Classification Number (ECCN):** EAR99

Links (Click on the below items to view):

- **HigResPic1**( https://www.larsonelectronics.com/images/product/HigResPic1/330552.JPG )
- **ISO 9001 Certification**( http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF )
- **Business Certificate**( https://www.larsonelectronics.com/images/pdfdocs/w9.PDF )
- **Shipping Time Map**( https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf )