

# Trailer-Mounted Ground Power Unit

GPU-490

## Standard Features

- Equipped with a Cummins engine and a Marathon Generator.
- Mounted on 4-wheel trailer constructed of 2" X 4" rectangular steel tubing with all cross members and motor mounts welded to the frame
- Front axle has heavy duty 5th wheel type steering with brake locked when tow bar is latched in up position
- Steel enclosure with updraft. Side doors are removable
- All AC/DC and engine controls mounted in weather-protected box with hinged door for easy access
- Deep Sea Generator set controller for engine control and monitoring.
- Engine protection controlled by engine ECM.
- Trouble codes displayed on Deeps Sea controller as well as diagnostic switch with a flashing light.
- Dual cable trays
- Engine block heater
- Air pre-heat
- Low fuel shut down



## Dimensions

Length:	119" (302.3 cm)
Width:	83" (210.8 cm)
Height:	76" (193 cm)
Weight (dry)	4500 lb (2041.2 kg)
Weight w/ rectifier:	5000lb (2268 kg)
Max Towing Speed:	15 mi/h (24.1 km/h)
Wheels:	4.8 X 12
Tires:	Pneumatic mounted on 5-lug

## Engine- Cummins

Model Tier 3.....QSB 4.5, 155HP, 2,000rpm

Model Tier 4i.....QSB 4.5 155HP, 2,000 rpm

Displacement..... 4.5L

Horsepower..... 155bhp

**Type**.....4-cylinder diesel, direct injection, four-cycle, turbo-charged

## Engine Controls (ECU)

- Single Switch Starting and Shutdown Engine Overspeed
- Shutdown Low Oil Pressure Shutdown High
- Water Temperature Shutdown Automatic Start Over
- Crank Shutdown Electronic Governor

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## Optional Features

- Low fuel beacon
- Additional power cable
- Extra length power cable
- Safety beacon

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- Safety beacon
- Rectifier - provides 28.5 VDC, 600 A continuous -2000 peak power. Includes 30 ft (9.1 m)
- Mil. Spec. cable with molded plug (2 wires), voltmeter, ammeter, cable power switch (toggle) and pilot light.

## 400Hz Controls and Gauges

- Deep Sea Controller has 4 line display for generator functions
- Power Cable Switch (Toggle)
- Cable Contactor Switch (momentary toggle)
- Voltage Adjust Rheostat

## Aircraft Power Cable

30 ft (9.1 m) AC power cable, Mil. Spec, with molded plug (6 wires)

## Electrical System

Starting System 12VDC.....2 Group 31 batteries  
Gauges.....All Engine display functions handled by Deep Sea controller

## GENERATOR: MARATHON ELECTRIC 430 PSL 1315

Manufacturer.....Marathon 94 KVA (75kW) 400 Hz  
Operating Speed.....2000 rpm  
Class F insulation. ....Single Bearing 0.5% Voltage Regulation  
Voltage Regulator.....AVC63-12B2 (Basler)

## Fuel System

Type (Tier 3)..... Jet A or Diesel  
Type (Tier 4i).....Ultra Low sulphur Diesel  
Tank.....External Steel with steel fuel lines & 3 in (7.6 cm) fill  
Capacity.....55 gal (208.20L)(8 hours run time @ full load)

## Aircraft Protection

All models automatically open the contactor and remove power to the aircraft for any of the following reasons:

Over Voltage.....122 VAC L-N immediate trip  
Under Voltage.....107AC L-N immediate trip  
Over Frequency.....420HZ immediate trip  
Under Frequency.....380 HZ immediate trip

The contactor will not remain closed unless power is within the limits stated above.