

# Trailer-Mounted Ground Power Unit

GPU-4180

The GPU 4180 ground power unit is a diesel-powered generator that provides regulated 180kVA, 400 Hz, 115/200 VAC, 3-phase power to aircraft. with the 28.5 VDC rectifier option, the unit provides power to aircraft that need 28 VDC at 600A continuous and 2000 A peak. The unit is portable, easy to maintain and durable with uncompromising performance



## Dimensions

Length (Overall).....	138" (350.5 cm)
Width.....	77" (195.5 cm)
Height.....	67" (170.1 cm)
Weight (dry) .....	5500 lb (2494 kg)
Weight w/ rectifier.....	6000lb (2721 kg)
Max Towing Speed.....	15 mi/h (24.1 km/h)
Wheels/Tires.....	6.9 X 9

## Standard Features

- Mounted on 4-wheel trailer constructed of 2" X 4" rectangular steel tubing with across members and motor mounts welded to the frame
- Front axle has heavy duty 5th wheel type steering with brake
- 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 enginecontrol monitoring (ECM).
- Trouble codes displayed on Deep Sea controller as well as diagnostic switch with a flashing light.
- Dual cable trays
- Engine block heater
- Air pre-heat

# Trailer-Mounted Ground Power Unit

GPU-490

## Supplementary equipment

### 400Hz Controls and Gages

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

### Aircraft Power Cables

- (2) 30 ft (9.1 m) AC power cables,
- Mil. Spec, with molded plug

## Aircraft Protection

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

- Over Voltage
- Under Voltage
- Over Frequency
- Under Frequency

The contactor will not close and supply power to the aircraft unless the problem is corrected

## Optional Equipment

- Low fuel light
- Low fuel shutdown
- Extra length power cable
- Convenience receptacle 60 Hz 15A
- Safety beacon
- Rectifier - provides 28.5 VDC, 600 A continuous

## Engine- Cummins

Model.....QSB 6.7-260

Displacement..... 6.7L

Horsepower..... 270 bhp

Type.....6-cylinder diesel, charge air-cooled, direct injection, four-cycle, turbo-charged

## Engine Controls (ECU)

- Engine Overspeed Shut Down
- Low Oil Pressure Shutdown
- High Water Temperature Shutdown
- Automatic start over Crank Shutdown
- Electronic Governor

## Fuel System

Type..... Jet A or Diesel

Tank.....External Steel with steel fuel lines & 3 in (7.6 cm) fill

Capacity..... 110 gal (416.3L)

## Electrical System

Starting System..... 12VDC

Batteries.....2 Group 31 batteries

Gauges.....All Engine display functions handled by Deep Sea controller

## GENERATOR

Manufacturer:

Marathon 432 PSL 1821, 144 kW, 400Hz

Operating Speed.....2000 rpm, 24 Pole

*optional upgrade:*

MECC ALTOTEH CO 38 2L 24 144Kw,

400 Hz