

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

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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