

Trailer-Mounted Ground Power Unit

GPU-4140



The GPU 4140 ground power unit is a diesel-powered generator that provides regulated 140kVA, 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 500A continuous and 2000 A peak. The unit is portable, easy to maintain and durable with uncompromising performance

Dimensions

Length:.....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.....4.8 X 12
 Tires.....Pneumatic mounted on 5-lug

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-4140

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

GENERATOR

Manufacturer....Marathon 120 KW, 400 Hz
Operating Speed.....2000 rpm

Engine- Cummins

Model.....QSB 6.7-240
Displacement..... 6.7L
Horsepower..... 240 bhp
Type.....6-cylinder diesel, 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 Diesell
Tank.....External Steel with steel fuel lines & 3 in (7.6 cm) fill
Capacity.....110 gal (208.20L)

Electrical System

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

Optional Equipment

- Low fuel beacon
- Low fuel shutdown
- Extra length power cable
- Convenience receptacle 60 Hz 15A
- Safety beacon
- Rectifier - provides 28.5 VDC, 600 A continuous -2000 peak power. Includes 30 ft (9.1 m)