

# 112 kW – 400 Hz (140 kVA cos phi 0,8) MOBILE GROUND POWER UNIT

## GEAC 140



## DESCRIPTION

Mobile ground power unit designed to supply grounded aircraft with 115/200V 400 Hz and 28V. The GPU includes a diesel engine driving and alternator by means of a semi flexible coupling.

The set rests on a double-axle trailer chassis with four 18x7 wheels and braking applied to the front wheels by raising and lowering a draw bar.

The canopy is made of hot galvanized metal sheet.

The 400 Hz distribution is made by 2 outgoing equipped with protection, (control dispositif) the controls, and a 10 m long wire with a standard aviation socket.

\* 28 Vcc option comprises the same equipment.

The GPU can be easily loaded by a fork-lift and can be towed on a trail at a maximum speed of 25 km/h.

The GPU is designed to operate at temperatures ranging from :

- -20°C to +40°C
- Relative humidity up to 90 %

Multidirectional projector – Warning signs

## TECHNICAL CHARACTERISTICS

### ALTERNATOR

Frequency	400 Hz $\pm$ 1 %
Voltage	115/220 VAC $\pm$ 1,5 %
Continuous rating	140 kVA at 0,8 Pf
Overhall harmonic rate	< 3 %
Partial harmonic rate	< 2 %
According to NF	AIR 2021 E/EN 2282

### 28 Vcc OPTION

By transformer rectifier	
Voltage at cable end (l=10 m)	28 Voltage $\pm$ 1V
Permanent current	400 A
10 min current	1000 A
Instant peak current	2000 A
Ripple factor less than	< 1V
	< 1V
According to NF	AIR 2021E / EN 2282
Limited intensity	28 Vcc

### DIESEL ENGINE

Rotation speed	2000 rpm
Low speed	1000 rpm
Mechanical power	119 kW
Cooling	Water
Electronic regulation	
Fuel	Fuel/TRO
Battery	24V
Autonomy	8h for ½ load

### ELECTRICAL EQUIPMENT

Safety signalization, operation indicators are managed by a MAGE controller..

#### **Safety 400 Hz**

Overfrequency	Underfrequency
Overvoltage	Undervoltage
Overcurrent	

#### **28 Vcc option**

Overvoltage	Overcurrent
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#### **Diesel engine**

Low oil pressure	High temperature
Overspeed	Fuel low level

### AUTOMATE MAGE

A back lighted display of 4 lines of 20 characters in 4 language (English – german – Spanish – French).

Report listing 128 last events.

Servicing alarm.

Display of voltage, current, frequency, motor speed.

Apparent power, time indicator.

## MAIN CHARACTERISTICS

### OVERALL DIMENSIONS

Length in mm	:	3265
Width in mm	:	1680
Height in mm	:	1600

**WEIGHT WITHOUT PACKING IN KG :** 3300

### OPTIONS

Different power unit	Water or air cooling	Shock absorber axle
Limited speed rising	Pulling hook	Fuel heater
Polyester canopy	Battery transfer switch	Supply 112 Vcc



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