

# GPU type GA

**Aircraft Ground Power Unit type GA**  
**90 to 180kVA – 115/200V 400Hz**



- ➔ **Multi-purpose GPU**
- ➔ **Since 1949**

## Main characteristics

Voltage	115/200V three phases + neutral
Voltage regulation	± 1%
Transient voltage	±3V <200ms, under load impact 0-80% or 80%-0
Power factor – cos φ	0,8
Frequency / Frequency regulation	400 Hz / ± 1Hz
Transient frequency	±10Hz < 2s, under load impact 0-80% or 80%-0
Operating temperatures	-30°C / + 50°C

## Characteristics across the range

GPU model	Power kVA (cos φ 0,8)	Overloads kVA (cos φ 0,8)	Diesel engine type	Weight – kg **
GA100 D	90 / 100*	112	Deutz BF4M1013EC 4 cylinders	2200
GA100 V			Iveco NEF45 4 cylinders	2200
GA120 D	120	138	Deutz BF6M1013E /EC 6 cylinders	2400
GA120 V		150	Iveco NEF67TM2 6 cylinders	2400
GA150 D	150	165	Deutz BF6M1013EC 6 cylinders	2400
GA150 V		165	Iveco NEF67TM3 6 cylinders	2600
GA180 D	180	200	Deutz BF6M1013FC 6 cylinders	2500

\* Depending on engine speed: 1714rpm / 2182 rpm

\*\* may vary according to options



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## Engine

- Turbo diesel engine
- Water cooled
- Engine speed: 2182 rpm
- Electronic engine speed regulator EMR (Deutz)
- Batteries : 2 x 12V - 125Ah each

## Alternator

- GUINAULT type AS250
- 400Hz, 115/200V
- 22 poles, brushless
- GUINAULT electronic voltage PCB control board type RS525

## Safeties

### Electrics

- Over voltage
- Under voltage
- Over frequency
- Under frequency
- Overload

### Engine

- Battery loading default
- Over speed
- High temperature
- Low oil pressure
- Air filter clogging-up

## Outputs

- 115/200V-400Hz, length 10 m with standard plug ISO461 / Stanag 3303.  
1 output for GA100 – 2 outputs for GA120/GA150/GA180
- 28Vdc output (*optional*)

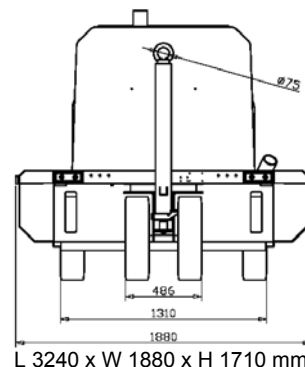
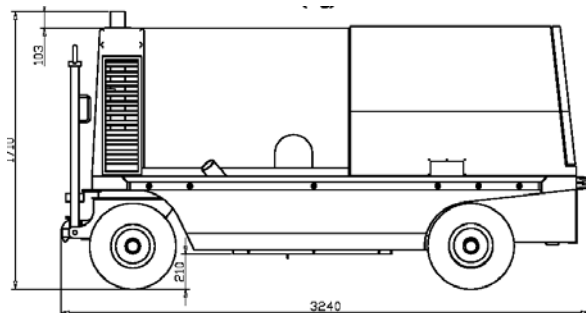
## Main assembly

- Steel frame, anti-corrosion coating
- Polyester canopy
- Leading front axle with ball bearing
- Automatic braking when tow-bar is raised of lowered
- Cables storage compartments on each side of the unit
- Pneumatic tyres 600x9
- Fuel tank 260 litres

## Options

- 28Vdc output**, GUINAULT rectifier transformer unit
  - 800A permanent - 1800A during 3s – peak 2400A
  - ATR aircraft current limitation
  - 1 output length 10m with standard plug Stanag 3302
  - simultaneous use of DC and AC outputs
- Low revolution speed with alternator 1714rpm** for optimised noise level and fuel consumption
- Super sound-proofing : 69dB(A) @ 7m
- DFS400 double insulation
- Cold temperature engine starting kit
- GPU anti-towing security when cables connected to aircraft
- Sand wind protections
- Automatic engine oil refilling system
- Automatic stop of the unit if no line contactor is interlocked
- Truck mounted GPU: Iveco, Mercedes, Nissan ...
- GPU integrated in push-back tractors
- Additional outputs:
  - Dual voltage 28/56Vdc output
  - Single phase 400Hz output
  - 230Vac - 50Hz
  - 2<sup>nd</sup> 28Vdc (independant)

## Dimensions



L 3240 x W 1880 x H 1710 mm



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