

NEW DESIGN

GPU type GA

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



➔ **Lowest Total Cost of Ownership**

➔ **Since 1949**

➔ **Reduced noise level**

Main characteristics

Voltage	115/200V three phases + neutral
Voltage regulation	± 1%
Transient voltage	±3V <200ms, under load impact 0-80% or 80%-0
Frequency / Frequency regulation	400 Hz / ± 1Hz
Transient frequency	±10Hz < 2s, under load impact 0-80% or 80%-0
Noise level	80dB(A) @ 1m – optional 69dB(A) @ 7m
Operating temperatures	-20°C / + 45°C (as a standard)

Characteristics across the range

GPU model	Power kVA (cos φ 0,8)	Overloads kVA (cos φ 0,8)	Diesel engine type	Weight – kg **
GA100V	90/100 *	112	Iveco NEF45 4 cylinders	2300
GA100D			Deutz BF4M1013EC 4 cylinders	2300
GA120V	120	150	Iveco NEF67TM2 6 cylinders	2500
GA120D		138	Deutz BF6M1013E / EC 6 cylinders	2500
GA150V	140/150 *	165	Iveco NEF67TM3 6 cylinders	2600
GA150D		165	Deutz BF6M1013EC 6 cylinders	2600
GA180D	180	200	Deutz BF6M1013FC 6 cylinders	2700

* Depending on engine speed: 1714 rpm / 2182 rpm

** may vary according to options



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Engine

- Turbo diesel engine
- Water cooled
- Engine speed: 2182rpm (*optional 1714rpm*)
- Electronic engine speed regulator EMR (Deutz) or GAC (Iveco)
- Batteries : 2 x 12V - 125Ah each

Alternator

- GUINAULT type AS250
- 400Hz, 115/200V
- 22 poles, brushless (*28 poles when running at 1714rpm*)
- 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*)

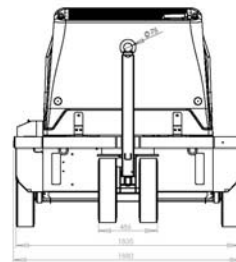
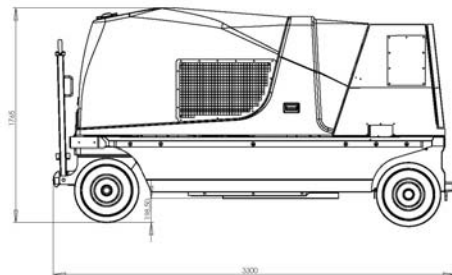
Main assembly

- Steel frame, anti-corrosion coating
- On single swinging 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 winter kit
- GPU anti-towing safety when cables connected to aircraft
- Sand wind protections + filters
- Automatic engine oil refilling system
- Automatic stop of the unit if no line contactor is interlocked
- Any additional electrical outputs upon request
- Compartment for cones and aircraft parking shocks fixed on canopy
- Protective bumpers on front side of chassis
- TIER3 Perkins and Cummins engines** also available

Dimensions



Dimensions : L 3300X W 1880X H1765mm



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