

FREQUENCY CONVERTER type CA

**Aircraft Rotative Frequency Converter type CA
115/200V 400Hz and 28Vdc output**



Rotative technology
⇒ *increased life time and electrical performances*

Main characteristics

Input current	Three phases 50-60Hz / 400V \pm 10% between each phase
Output current	400Hz - 115/200 Vac + 28Vdc (option available on CA90 and CA140)
Frequency conversion	Rotative technology
Noise level	< 72dB @ 7m
Maximum towing speed	25 km/h

Characteristics across the range

Model	Power	Overloads at cos ϕ 0,8	Max. absorbed current	Number of 400Hz output	Weight - kg
CA90	90kVA	100kVA	200A	1	1600
CA140	140kVA	155kVA	230A	2	1760
CA180	180kVA	200kVA	290A	2	2300



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Power input

- ❑ Input current: 50Hz-60Hz / 400V±10% three phases
- ❑ Power cable of length 15m - delivered without plug
- ❑ Starting current: $3I_N$
- ❑ Electrical motor, asynchronous star-triangle – 3000rpm

Power output - Alternator

- ❑ GUINAULT brushless alternator type AS250 - 400Hz, 115/200V 16 poles, Auto ventilated, self excited
- ❑ Harmonics ratio ($P_H, P_N, P_H / N$) < 2% individual < 3% global
- ❑ Output voltage: 200V ± 1%
- ❑ GUINAULT electronic voltage PCB control board type RS639 or RS525

Safeties - Securities

- ❑ Over and under voltage
- ❑ Over current
- ❑ Over and under frequency
- ❑ Electric motor overloads

Output(s)

- ❑ One or two 4x70mm² with 400Hz cable(s) - length 10m –standard plug STANAG 3302
- ❑ 28Vdc output (*optional*)

Operation - Performances

- ❑ Standard operating temperature : -15°C to +45°C
- ❑ Transients and modulation better than EN2282 standard
- ❑ Indoor and outdoor use

Main assembly

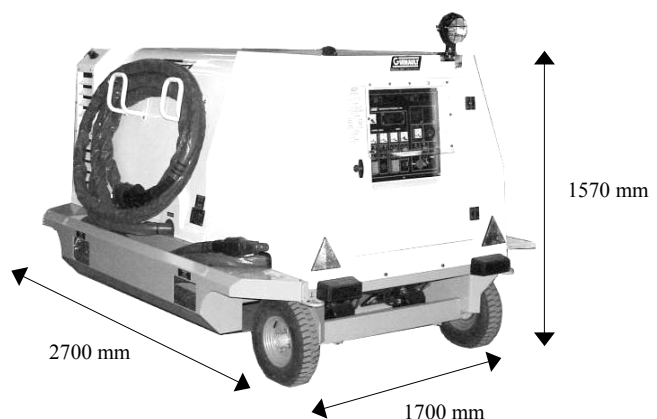
- ❑ Steel frame, anti-corrosion coating
- ❑ Polyester canopy
- ❑ Leading front axle with ball bearing
- ❑ Automatic braking when tow-bar is raised or lowered
- ❑ Cables storage compartments on each side of the unit

Options

- ❑ **28Vdc output**, GUINAULT rectifier transformer unit
 - 600A permanent - 1600A during 3s – peak 2000A
 - ATR aircraft current limitation
 - 1 output length 10m with standard plug Stanag 3302
 - simultaneous use of DC and AC outputs
- ❑ **Softstart**, reduce starting current to I_N instead of $3I_N$
- ❑ Preheating kit for temperature below -15°C
- ❑ Converter mounted on fixed platform for **stationary** operation:



Dimensions



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