



400 Hz GPU CONVERTER FOR MILITARY AIRCRAFT

GPU: 400 Hz FREQUENCY CONVERTERS

SA MODEL

The GUINAULT mobile 400 Hz frequency converter can provide electrical power for military aircraft in the most extreme environments. These units can be located on apron nearby the aircraft or in a maintenance hangar.

The GUINAULT 400Hz mobile frequency converter is also available in stationary version for hangars application.

GENERATING VALUE

- No emission of direct pollutants to the ground
- Greatly reduce the ambient noise level on the ground
- Significant savings in jet fuel consumption
- Greatly reduce the maintenance costs of the APU

ADVANTAGES

- Versatility: synchronization, extremely cold and hot conditions, variable frequency, 28VDC option
- Performance and efficiency
- Robustness and reliability
- Silence and comfort
- Ease of use
- Reduced maintenance
- Remote access and monitoring

Specifications

		SA90	SA180
PERFORMANCE	Frequency Voltage Rated power Power factor THD (I) input Efficiency No load losses Waveform	400 Hz \pm 0.5 % 115 / 200 V \pm 0.5 % 90 kVA (p.f.1) Any power factor compliant < 9% 94% < 2 kW ISO 6858 / SAE ARP 5015 / DFS 400 Compliant	180 kVA (p.f.0.8) < 9% 94% < 2 kW
DISTRIBUTION	Output cables Number of outputs	Depending on the use and length: cable, reel or trapdoors (see options) 1 (2 optional) 2	
INPUT CURRENT	Inrush current Frequency Voltage Rated current	< 10 A 50-60 Hz \pm 5% 400 V \pm 15% 125 A \pm 5 % 250 A \pm 5 %	
SOUND PRESSURE LEVEL	At 1 meter's distance, free field	< 65 dB (A)	
OPERATION CONDITIONS		- 30°C / + 55°C relative humidity up to 100% (no condensing) Indoor/outdoor (IP 55)	
DIMENSIONS AND WEIGHTS	L x W x H (mm) / Weight (Kg) Fixed unit Mobile unit	720 x 720 x 1511 / 580 kg 2300 x 1500 x 1200 / 990 kg	720 x 720 x 1800 / 680 kg 2300 x 1500 x 1250 / 1100 kg

OPTIONS

- Software for diagnostic and consolidated monitoring of the unit
- Start-up/operation in extreme cold (T - 40°C)
- Optional 2nd 400 Hz output (SA90)
- Cable depending upon type of distribution (buried, aerial) and length
- Military grade electromagnetic shielding (MIL STD 461F)
- Multi-Converter 400 Hz synchronization
- Dynamic compensation, multiple outputs of various lengths
- 800 / 2 400 A 28 Vdc Output (except for SA180 mobile)
- Cable box cover
- Other input voltage (220 V, 480 V, 575 V)
- Variable frequency 350-800 Hz

ACCESSORIES DISTRIBUTION

- Cable retriever
- Cable "crocodile"
- Underground distribution through PITS