



400 Hz STATIC FREQUENCY CONVERTERS FOR CODES B TO F AIRCRAFT

APU OFF

SA

400 Hz CONVERTER

GUINAULT frequency converters provide the most versatile 400 Hz solution for today and tomorrow's aircraft. Our frequency converters can provide electrical power for civil aircraft in the most extreme environments. These machines can be installed under passenger boarding bridges, on a control room floor, on the tarmac or in maintenance hangars. They are made in an ultra-robust material, in order to withstand the often harsh conditions experienced when handling and towing equipment in the airport environment. Our frequency converters are also available in a mobile version.

GENERATING VALUE

- Limit emissions of direct pollutants to the ground
- Greatly reduce the ambient noise level on the ground
- Generate new revenue for the airport by offering an added-value service to their airlines' customers
- Significant savings in kerosene consumption for airlines
- Greatly reduce the maintenance costs of the APU

ADVANTAGES

- Versatility : synchronization, extremely cold and hot conditions, variable frequency, 28 Vdc options
- Performance and efficiency
- Robustness and reliability
- Silence and comfort
- Ease of use
- Reduced maintenance

Specifications

		SA90	SA180
PERFORMANCE	Frequency Voltage Rated power Power factor THD (l) 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