



400 Hz FREQUENCY CONVERTER FOR CODES B TO F AIRCRAFT

APU OFF

SA

Our frequency Converter can provide electrical power for civil and military aircraft in the most extreme environments. These Unit can be installed under passenger boarding bridges, on a control room floor, on the apron, or in maintenance hangars. The GUINAULT frequency converter is also available in a mobile version, in an ultra-robust design, adapted to the often harsh conditions experienced when handling and towing equipment in the airport environment.

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 airlines
- Significant savings in jet fuel consumption for airlines
- Greatly reduce the maintenance costs of the APU
- Improve comfort and air quality on board

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
- Remote access and monitoring

Specifications

		SA90	SA180
PERFORMANCE	Frequency	400 Hz ± 0.5 %	
	Voltage	115 / 200 V ± 0.5 %	
	Rated power	90 kVA (p.f.1)	180 kVA (p.f.0.8)
	Power factor	Any power factor compliant	
	THD (l) input	< 9%	< 9%
	Efficiency	94%	94%
	No load losses	< 2 kW	< 2 kW
	Waveform	ISO 6858 / SAE ARP 5015 / DFS 400 Compliant	
DISTRIBUTION	Output cables	Depending on the use and length: cable, reel or trapdoors (see options)	
	Number of outputs	1 (2 optional)	2
INPUT CURRENT	Inrush current	< 10 A	
	Frequency	50-60 Hz ± 5%	
	Voltage	400 V ± 15%	
	Rated current	125 A ± 5 %	250 A ± 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	720 x 720 x 1511 / 580 kg	720 x 720 x 1800 / 680 kg
	Mobile unit	2300 x 1500 x 1200 / 990 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