

Ground Power Unit Electric Frequency Converter

GP90E

Features & Benefits

No-break power transfer

Over/under voltage protection (input/output)

Over/under frequency protection

Overload protection

Overheating protection

Short-circuit protection

Neutral verification

Asymmetric load verification

Lockable doors with interlock functionality

Tropical package for high humidity environments (10-100%)



WHY AVRO

- ▶ 36-month warranty, effective from the date of delivery.
- Customized business relationship
- ► AAA maintenance program
- Stock locations in the United States and Canada

AIRCRAFT GROUND SUPPORT EQUIPMENT

AVRO GSE

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Electric Frequency Converter

Output Parameters	
Rated output power (at PF=1)	90 kVA
Qty of output	1
Rated output voltage line/phase	3 x 115/200 V
Output voltage adjustment range	15%
Output voltage frequency	400 Hz
Frequency stabilization accuracy	± 0.001 Hz
Output voltage regulation accuracy	
for balanced load	± 0.5%
for 40% unbalanced load	± 0.5%
Total harmonic content THDU	
line-to-line (neutral) for linear load	≥ ∠ /o
line-to-line (neutral) for non-linea	r load ≤ 2%
Maximum single harmonic distortion	
linear load	≤ 1.5
non-linear load	≤ 2
Voltage modulation	≤ 0.5%
Phase symmetry, electrical degree	
for balanced load	120 ± 1%
for 30% unbalanced load	120 ± 2%
Power factor	From 0.8 to 0.95 leading
Range of load change	0 - 100%
Voltage setting time at 100 % load connection at output voltage deviation not more than 8%	≤ 2 ms
Crest factor	1.414 ± 0.04
Permissible overload, %	
within 600 s	105
within 60 s	125
within 30 s	150
within 10 s	200
within 10 s	300
within 2 5	400

Input Parameters	
Supply main rated voltage	3×400 V, PE
Supply main voltage permitted deviation	± 15% or according to customers spec
Supply nominal frequency	50/60 Hz
Supply main rated frequency	± 8 Hz
Overall Efficiency at 30-100 % load	≥ 0.95
Power factor	> 0.97
Line Current Distortion at nominal load THDI	≤ 5%
Power interruption	Up to 50 ms
Miscellaneous	
Ingress protection (converter module)	IP55
Maximum/ Minimal ambient temperature	plus 50°C/ minus 50°C
Audible noise	55dB at 1 meter Typically, 50 dB
Relative humidity	0 to 100%
Operational useful life	Minimum 25 years
Mean Time To Repair (MTTR)	Maximum 20 minutes
Performance	Mobile
Control panel/Display	TFT with touchpad
Cable IN	10 m or as per customer request
Cable OUT	10 m or as per customer request

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