

STATIC GROUND POWER UNIT (SGPU)

40kW TO 144 kW



SMART & FUTURISTIC GSE



SOLID STATE GROUND POWER UNIT



WHEEL MOUNTED SFC



JET BRIDGE MOUNTED SFC

▶ Salient Features

- ▶ State of the art semi conductor technology
- ▶ Unity power factor through APFC
- ▶ High efficiency (Up to 95%)
- ▶ Low THDi <1.5% at linear load
- ▶ Data logging
- ▶ MCU based monitoring and control
- ▶ Green Standby Function
- ▶ Line drop voltage compensation
- ▶ No break power transfer compatibility (NBPT)
- ▶ IP 54 Enclosures for outdoor use
- ▶ Low noise emission (<65dBA@1m)
- ▶ CE Certified

SERVING DEFENSE AND AVIATION FOR FOUR DECADES

AIR+MAK INDUSTRIES INC., USA

STATIC GROUND POWER UNIT (SGPU)



Technical Specifications*

INPUT**

Voltage	:3 phase 400V/415V AC $\pm 15\%$
Frequency	:45Hz up to 65Hz $\pm 5\%$

OUTPUT**

Voltage-	:3 phase 200V AC -400Hz $\pm 1\%$
Overall Efficiency	:87%-95%
Max. Crest Factor	:1.4:1

RECTIFIER

4 Quadrant Operation	
AC Voltage Range	:25% +10%
Efficiency	:93%-97%
Input Frequency Deviation	: $\pm 5\%$
Overload Capacity	:150% Continuous
Inrush Current	:None
Overall current limit	:120% Continuous

MOUNTING CONFIGURATION

FIXED/TRAILER/JET BRIDGE

INVERTER

Static Regulation 0 - 100% load	: $\pm 1\%$
Dynamic regulation 100%	:5%, recovering to 1% within 40 ms
Total harmonic distortion	:< 1.5% (Linear Load)
Electronic Limit Overload	:120%@60s; 150%@5s;200%@2s***
Overload Capacity (IGBTs)	:150% Continuous
Frequency stability	: $\pm 0.01\%$ Crystal controlled
Load power factor	:0-1
Efficiency	:93%-98%

PROTECTIONS

Short circuit proof by electric current limiting and shutdown

ENVIRONMENTAL CONDITIONS

Operating Temperature	:0°C to +55 °C (@100% Load)
Relative Humidity	:10%-100%
Noise Level	:< 65 dBA@1 meter
Altitude	:up to 2500m without de-rating

* Due to continuous development, the dimensions, layout, configuration and specifications are subject to change without notice.

** Other voltages and frequencies available on request

*** Other Electronic Overload limits available on request

For detailed technical specifications or any other queries please contact us

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