

# STATIC GROUND POWER UNIT (SGPU)



40kW to 144 kW



MAK 90kVA SOLID STATE GPU-PBB MOUNTED UNIT

SMART AND  
FUTURISTIC  
**GSE**

SOLID STATE GROUND POWER UNIT

## SALIENT FEATURES

- ▶ State of the art semi conductor technology
- ▶ Green Standby Function
- ▶ Unity power factor through APFC
- ▶ Line drop voltage compensation
- ▶ Better efficiency
- ▶ No break power transfer compatibility (NBPT)
- ▶ Low THDi <5% at linear load
- ▶ IP 54 Enclosures for outdoor use
- ▶ Data logging
- ▶ Low noise emission (<65dBA@1m)
- ▶ MCU based monitoring and control
- ▶ CE Certified

# STATIC GROUND POWER UNIT (SGPU)

## Technical Specifications \*



INPUT		OUTPUT	
Voltage	:3 phase 415V AC $\pm$ 10%	Voltage	:3 phase, 200V(L-L) $\pm$ 1%
Power factor full load	:0.99	Frequency Nominal	:400 Hz
Frequency	:45Hz up to 65Hz	Power factor	: 0.8 - 1PF
Rectification	:IGBT based APFC	Voltage regulation	: < 1%
Current THD	:<5%	Overload	:110% for 1 hour, 125% for 5 minutes, 150% for 5 seconds
		Power	:90 kVA

EFFICIENCY	
Overall efficiency	: >93%

PROTECTION			
INPUT		OUTPUT	
• Under Voltage	• Phase reversal	• Under Voltage	• Over Frequency
• Over Voltage	• Under Frequency	• Over Voltage	• Short-circuit
• Over Load	• Over Frequency	• Overload	• Aircraft interlock
		• Under Frequency	

ENVIRONMENTAL CONDITION			
Operating Temperature	: -20°C to + 55°C	Relative Humidity	: 10 to 100%
Altitude	: Up to 2000 Meter without derating	Enclosure Protection Class	: IP 54

STANDARDS			
SAE ARP 5015 Ground Equipment	: 400 Hz Ground Power Performance Requirements	EN61000-6-2	: Generic immunity standard
		BS 2G 219	: Generic immunity standard
EN62040-1-1	: General & safety requirement	DFS400	: Specification for 400 Hz power
EN61558-2-6	: General & safety requirement	ISO 6858	: Aircraft ground support electric supplies
EN61000-6-4	: Electromagnetic Compatibility Generic emission standard	BS 2G 219	: General requirements for ground support equipment

\* 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

FOR MORE DETAILS CONTACT US:

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