



SOLID STATE GROUND POWER UNIT

SPECIAL FEATURES

- **CE Mark Certified** - EN61000-6-4 Electromagnetic compatibility - Generic emission standard, EN6100-6-2 Electromagnetic compatibility - Generic immunity standard, Low Voltage Directive(LVD) 2006/95/EC
- **State of the art semiconductor technology**(IGBT) guarantee **Unity Power Factor** and **Low Input**
- **Harmonics**(THDi < 1.5%)
- **High Efficiency**(up to 95% efficiency)
- **Voltage compensation**(Load Dependent or via Remote Feedback)
- **No Break Power Transfer Compatibility**(NBPT)
- **User friendly control panel**
- **Data logging**
- **IP54 enclosures** for outdoor use in extreme environmental conditions
- **28 VDC, 600 A output | 2000 A Crank** with DC and AC output working simultaneously
- **Green Standby Function**(20W power consumption when GSF is activated)
- **Low noise emission**(<65dBA@1m)

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SPECIFICATIONS

INPUT

- State of the art semiconductor technology(IGBT) Rectifier.
- Power Factor Correction(PF=1).
- 95% efficiency.
- 4 Quadrant Operation(better response of the system and safer operation for NBPT).
- Low input harmonics(<1.5% THDi), to comply with the strictest regulations at any load.

OUTPUT

- Voltage compensation (Load Dependant or via Remote Feedback - Real PLUG & PLAY connect GPU to aircraft and volate compensation is done automatically, no user adjustment required or additional accessories).
- 4 Quadrant Operation(better response of the system and safer operation for NBPT).
- Vector control inverter for better response and higher efficiency.

ENVIRONMENT CONDITION

- Temperature range
 - Sea level -40°C to +50°C @ 100% load
 - Above 2000m 30°C @ 100% load
- Relative Humidity 0% - 90% without condensation
- Noise level <65 dBA @ 1meter
- Altitude up to 2500m without de-rating

INPUT

- 3 phase 400V/415V AC; ±15%*
- 45Hz up to 65Hz
- Input current harmonics; <2% @ Full Load

OUTPUT

- 3 phase 200V AC -400Hz; ±1%*
- Overall efficiency; 90% - 95%
- Max. Crest Factor; 1.4:1

RECTIFIER

- 4 Quadrant Operation
- AC Voltage Range; -25% to +10%
- Efficiency; 95% - 97%
- Input Frequency Deviation; 10%
- Overload Capacity; 120% continuous
- Inrush Current; None
- Overall Current Limit; 150%

* Other voltages and frequencies available on request.

* Other Electronic Overload limits available on request.

**Due to continual product improvement, the specifications and dimensions are subject to change without notice.

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SPECIFICATIONS

■ PROTECTION AND SAFETY

- Enclosure Protection class up to IP55.
- No break power transfer compatibility(NBPT).
- Over/under voltage at output.
- Overload capability designed for :
 - Power stage 150% - Continuous
 - Magnetics 120% - Continuous
- Regulator Overload protections set at:
 - 120% for 600seconds
 - 150% for 60seconds
 - 200% for 2seconds
- Variable fan speed for internal temperature control.
- Over temperature protection.
- Short circuit proof by electric current limiting and shutdown.
- 90% switch interlock.
- Neutral voltage supervision.
- Broken neutral supervision.
- Leakage current supervision.

■ EFFICIENCY

- Up to 94% -30kVA to 90kVA @ load PF = 0.8 to 1.0
- 90% -<30kVA @ load PF = 0.8 to 1.0
- Green Standby Function - losses: 20W
- No load losses: <1.5kW

■ INVERTER

- | | |
|-----------------------------------------------------------------|------------------------------------|
| - Static Regulation 0-100% load; | ±1% |
| - Dynamic Regulation 100%; | 5% recovering to 1% within 20ms |
| - Total harmonic distortion; | Better than 3% (Linear Load) |
| - Electronic Limit Overload; | 120% @ 600s, 150% @ 60s, 200% @ 5s |
| - Overload Capacity(IGBTs); | 150% continuous |
| - Frequency stability; | ±0.01% Crystal Controlled |
| - Load power factor; | 0 - 1 |
| - Efficiency; | 95% - 98% |
| - Short circuit proof by electric current limiting and shutdown | |

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* Other Electronic Overload limits available on request.

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