SINEGPU 28VDC 28VDC GROUND POWER UNIT







- State of the art semiconductor technology (IGBT) Rectifier
- Power Factor Correction (PF=1)
- Up to 90% efficiency
- Low input harmonics (<1.5% THDi), to comply with the strictest regulations @ any load.



NORMS AND STANDARDS

- AVIATON ISO 6858 Aircraft ground support electric supplies
 SAE ARP 5015 Ground equipment 400 Hz gound power performance requirement
- MILITAR MIL-STD-704 Aircraft electric power characteristics
 - **EMC** EN61000-6-4 Electromagnectic compatibility Generic emission standard
 - EN61000-6-2 Generic immunity standard
- SAFETY IEC 60529 Degrees of protection provided by enclosures (IP Code)
 - IEC 62477-1 Safety requirements for power electronic converter systems and equipment
- **ENVIRONMENTAL** Dry heat test (steady state) IEC 60068-2-2 subclause 5.3
 - Damp heat test IEC 60068-2-78 subclause 6
 - Vibration test IEC 60068-2-6 subclause 6
 - Salt mist test IEC 60068-2-52 subclause 6
 - Dust and sand test Test Lc1 of IEC 60068-2-68



- 800Hz DC-DC Converter
- Galvanic Isolation.



- Up to 90% efficiency
- Green Standby Function losses: 20 W
- No load losses: <0.5 kW.



- Enclosure Protection class up to Ip55
- Enclousre with C5-M coating
- Over/under voltage at output:
 - Under voltage <20V (4 sec)
 - Over voltage >34V (4 sec)
 - Short Circuit <5V at current limit (4 sec)
- Overload capability designed for:
 - Power stage 150% Continuous
 - Magnetics 120% Continuous
- Overload protections set at:
 1200A 5 seconds
 - 2400A 5 seconds
- Over temperature protection.

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SPECIFICATIONS

INPUT

- 4 Wire 3 Wire Optional
- 3 phase 400V/415V AC | $\pm 10\%$ *
- 50/60Hz | ± 10%
- Input current harmonics | <2% @ Full Load

OUTPUT

- Output 28.5VDC | ±1%*
- Continuous current capability (at 28.5VDC) | 300A/600A*
- Maximum Current Limit (at 28VDC) | 1200/2400A for up to 5sec
- Current Limit adjusting steps (from 600A) \mid \pm 0.5%
- Voltage regulation up to 600A | 1%
- **Ripple** < 0.5%
- Dynamic Recovery to 90% VDC < <40ms
- Voltage Compensation | 0-4V up to 600A (remote feedback)
- Galvanic Isolation | 800Hz Transformer
- IGBT + DIODE Rectifier

* Other voltages and frequencies available on request

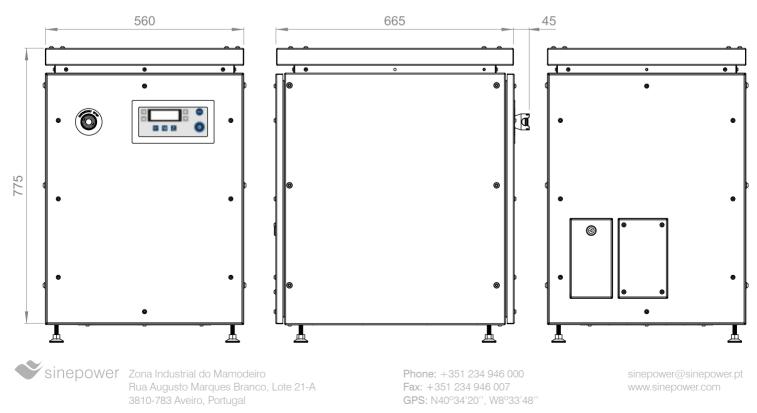
* Other Electronic Overload limits available on request

ENVIRONMENTAL CONDITIONS

- Coolant temperature (max) | Forced air up to 40°C
- Ambient temperature (min/max) | -40°C to +40°C
- Relative humidity (min/max) | 0% to 90% without condensation
- Pollution degree | 2
- OVC (Overvoltage Category) | 3
- Altitude | Up to 2000m



TECHNICAL DRAWING



Environments and decorative details in this catalogue have an informative purpose only. Result of Sinepower investment in research and development, the range can be subject of improvements. Therefore we reserve the right to change features and equipment in this catalogue without notice.