

SINEGPU 28VDC MOBILE 12 & 20 KVA SOLID STATE 28VDC GROUND POWER UNIT (MOBILE)





- 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.



- 800Hz DC-DC Converter
- Galvanic Isolation.



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



EFFICIENCY

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



TECHNOLOGY

- Enclosure Protection class up to IP55
- Enclousre with C4M 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 protections set at:
 - 1200A 5 seconds
 - 2500A 5 seconds
- Over temperature protection.

SPECIFICATIONS

SINEGPU 28VDC MOBILE 12 & 20 KVA SOLID STATE 28VDC GROUND POWER UNIT (MOBILE)

INPUT

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

OUTPUT

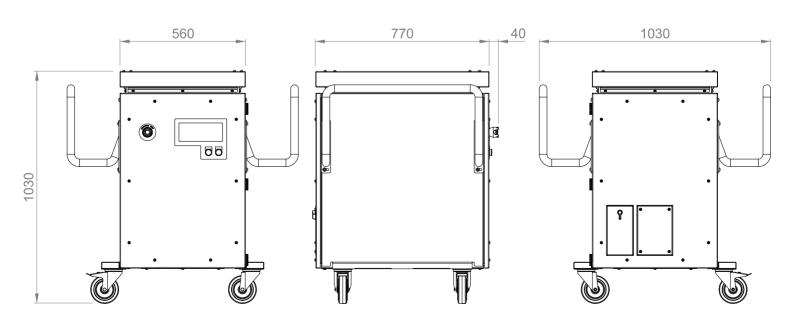
- Output 28.5VDC | ±1%
- Continuous current capability (at 28.5VDC) | 300A/600A*
- Maximum Current Limit ** | 1200/2500A* for up to 5sec
- Current Limit adjusting steps (100A steps from 300A/600A)
- Voltage compensation (remote feeedback) up to 15%
- Ripple | <1%
- Galvanic Isolation
- IGBT + DIODE Rectifier

ENVIRONMENTAL CONDITIONS

- Cooling | 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
- Sound power level | Lw <=65dba according to ISO 3747:2010
- * Other voltages, current and frequencies available on request
- ** Output cable shall be no longer than 15 meters



TECHNICAL DRAWING





Sinepower Zona Industrial do Mamodeiro Rua Augusto Marques Branco, Lote 21-A

Phone: +351 234 946 000 Fax: +351 234 946 007 GPS: N40°34'20", W8°33'48' sinepower@sinepower.pt www.sinepower.com