SINESFC STATIC FREQUENCY CONVERTER 40-80kVA 50H7 or 60H7







- 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.



- 4 Quadrant Operation (better response of the system and safer operation for NBPT)
- Vector control Inverter for better response and higher efficiency.



- Up to 94%
- No load losses: <2% of full Load.



- Enclosure Protection class up to IP54
- Over/under voltage at output
- Overload protections set at:
 - 120% for 600 seconds
 - 150% for 60 seconds
- 200% for 5 seconds
- Variable fan speed for internal temperature control
- Over temperature protection
- Short circuit proof by electric current limiting and shutdown.





- Communications
- MODBUS over RS232/RS485
- Remote control box



NORMS AND STANDARDS

- 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

SPECIFICATIONS

INPUT

- 3 phase 380V/400V/415V AC* | ±10%
- 50/60Hz | ±10%
- Input current harmonics | <2% @ Full Load

OUTPUT

- 3 phase 200VAC / 400VAC / 480VAC* 1%
- 50/60Hz | ±1%*
- Overall Efficiency | up to 94%
- Max. Crest Factor | 3:1

RECTIFIER

- 4 Quadrant Operation
- AC Voltage Range | -10% +15%
- Efficiency | up to 97%
- Inrush Current | None
- Overall current limit | 150% 60 segundos

* Other voltages and frequencies available on request

* Other Electronic Overload limits available on request

40-80kVA 50HZ or 60HZ

- INVERTER • Static Regulation 0 - 100% load | ± 1%
- Dynamic regulation 100% | 5%, recovering to 1% within 40ms
- Total harmonic distortion | < 3% (Linear Load)
- Electronic Limit Overload | 120%@600s; 150%@60s; 200%@2s

STATIC FREQUENCY CONVERTER

SINESFC

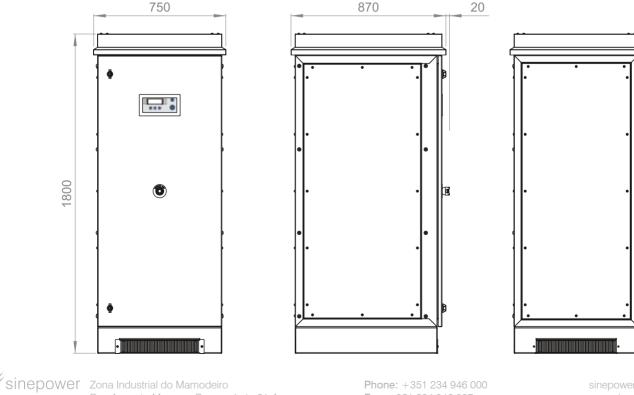
- Frequency stability | ±0.01% Crystal Controlled
- Load power factor 0-1
- Short circuit proof by electric current limiting and shutdown

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



TECHNICAL DRAWING



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