



SINE33I-SFC
STATIC FREQUENCY CONVERTER 400KVA-500KVA



SINEPOWER manufacture a variety of Static Frequency Converters. Static Frequency Converters convert the source power with a specific input voltage and frequency in to a different output voltage and frequency depending on what the client requires.

SINE33 SFC units can be used in a variety of applications: Civil and Military Aviation, Aeronautical industry, Maritime/Nautical Industry and Manufacturing sector.

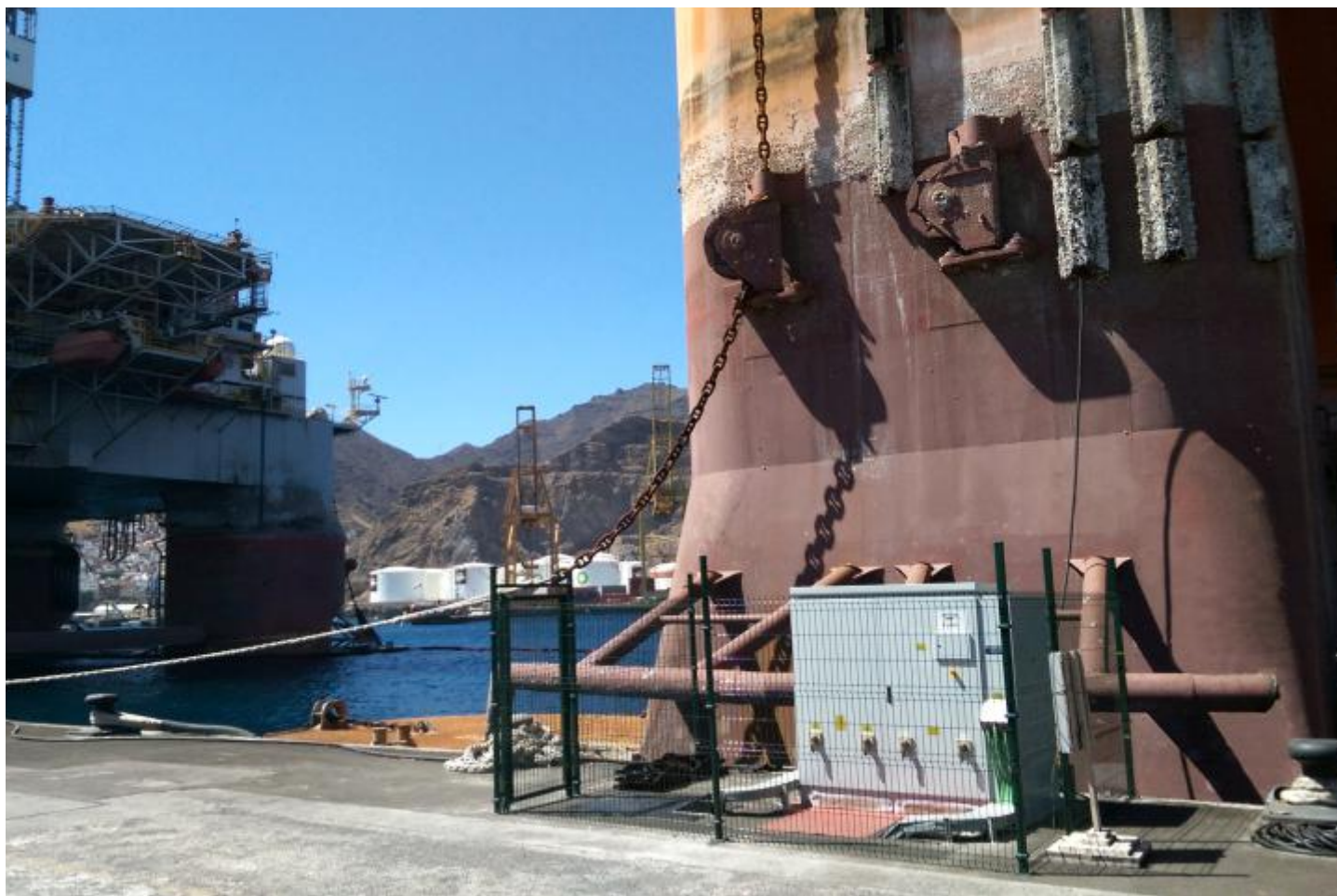
Sinpower

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SINE33 Static Frequency Converters (Solid-state) have no moving parts, except for the fans to cool the systems down, and are highly efficient units (up to 95% efficiency).
Our High frequency IGBT Technology (Rectifier and inverter) guarantees a perfect sinewave input current with low THDi (THDi<1.5%) and unitary power factor (PF=1), perfect for all sorts of extreme electrical conditions (compatible with Genset output).



- **CE Mark Certified** (IEC 61000-6-4:2006+AMD1:2010 - Electromagnetic compatibility (EMC). Part 6-4: Generic standards - Emission standard for industrial environments; IEC 61000-6-2:2016 - Electromagnetic compatibility (EMC). Part 6-2: Generic standards - Immunity for industrial environments; Low Voltage Directive (LVD) 2014/35/EU)
- **State of the art semiconductor technology** (IGBT)
- **High Efficiency** (up to 94% efficiency)
- **User friendly control panel**
- **Data logging**
- **IP54 enclosures** for outdoor use in extreme environmental conditions
- **Low noise emission** (<70dBA@1m)

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POWER QUALITY

INPUT

- State of the art semiconductor technology (IGBT) Rectifier
- Power Factor Correction (PF=1)
- 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 @ any load.

OUTPUT

- 4 Quadrant Operation
- Vector control Inverter for better response and higher efficiency.

EFFICIENCY

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

PROTECTION AND SAFETY

- Enclosure Protection class up to Ip54
- Over/under voltage at output
- Overload capability designed for:
 - Power stage 150% - Continuous
 - Magnetics 120% - Continuous
- Overload protections set at:
 - 120% for 600seconds
 - 150% for 60 seconds
 - 200% for 2 seconds
- Over temperature protection
- Short circuit proof by electric current limiting and shutdown.

INTERFACE AND COMMUNICATIONS

- Rs232

OPTIONAL FEATURES

- Communications
 - Monitoring by Web and SNMP
 - MODBUS Rs485
 - MODBUS TC/IP
 - Remote control box

NORMS AND STANDARDS

- **IEC 62040-1-1:2008** - Uninterruptible power systems (UPS). Part 1: General and safety requirements for UPS.
- **IEC 61558-2-6:2009** - Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1100 V.
Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers.
- **IEC 61000-6-4:2006+AMD1:2010** - Electromagnetic compatibility (EMC).
Part 6-4: Generic standards - Emission standard for industrial environments.
- **IEC 61000-6-2:2016** - Electromagnetic compatibility (EMC). Part 6-2: Generic standards - Immunity for industrial environments.

