

Technical Overview

VSP₅ Shore Power Converter

450kVA Single Cord Input



Innovative compact modular design that delivers continuous clean power – worldwide.

Maximizes power availability

Using the latest modular design, the VSP₅ provides a highly reliable, clean and efficient shore power conversion system. Active front-end technology on each shore cord input enables maximum power transfer to the yacht. Multiple input converters can be connected to any supply available and the system will not only function correctly but ensure that maximum power from each input is delivered.

Continuous clean output power

The output converter delivers a stable and clean waveform for powering onboard equipment. Loads range from utility services (heating, lighting and air conditioning) to entertainment (television and audio) to marine (winch, pumps and navigational equipment).

New compact modular design

The new modular design makes the system compact and highly serviceable. Individual converter modules can be removed and replaced with minimal downtime. Replacement modules are automatically configured ready for service.



Technical Overview

Part number VSP₅ / 10900-0450
Description 450kVA Shore Power Converter
 Single Cord Input

Input Supply

Rectifier Active front end
Cord inputs One
Type 3 phases
Voltage 340 to 520Vac
Frequency 47 to 64Hz
Power factor Unity
Rated cord current 900 Amps

Output Supply

Type 3 phases, neutral, isolated earth
Voltage 400Vac L-L / 230Vac L-N
Distortion < 1.5% linear load
Frequency 50Hz
Frequency regulation < 0.01% in standalone mode
Power @ 1.0PF 450kVA
Overload 150% for 30 seconds

Environment

Cooling Forced ventilation / fan assisted
Environment 0 to 45 deg C
Efficiency > 90% at rated load

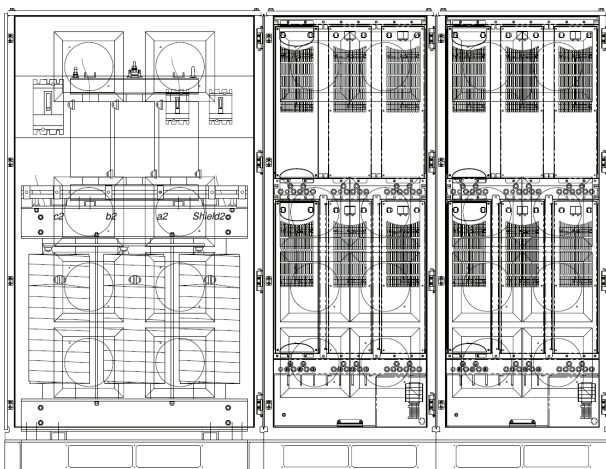
Mechanical

Enclosure RAL9003
Protection IP23
Mechanical H: 2,150 W: 2,820 D: 800 mm
Total weight 3,160 kg

Supporting Documentation

Service level Service Levels Agreements 2010
Electrical VSP510900-0450 E001
Mechanical VSP510900-0450 M001

Cabinet



Benefits

- » No interference with sensitive equipment
- » No compromises when connecting to low or high voltage supplies
- » Protection from shore supply faults
- » Quiet trouble-free operation
- » Full isolation from the shore to avoid galvanic corrosion
- » Easy connection for crew
- » Unique design maximises available space in engine room or lazarette also improving ventilation

Top 3 Selling Points

1. High power unit without compromises
2. Latest modular design provides cabinet flexibility
3. Bow / stern thruster operation