

Technical Overview

VSP₅ Shore Power Converter

150kVA Dual 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 / 20150-0150
Description 150kVA Shore Power Converter
 Dual Cord Input

Input Supply
Rectifier Active front end
Cord inputs Two
Type 3 phases
Voltage 340 to 520Vac
Frequency 47 to 64Hz
Power factor Unity
Rated cord current 150 Amps

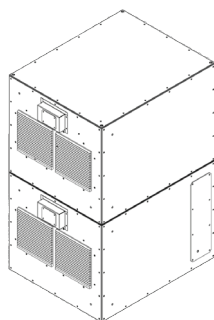
Output Supply
Type 3 phases, neutral, isolated earth
Voltage 400Vac L-L / 230Vac L-N
Distortion < 1.5% linear load
Frequency 50Hz
Frequency regulation < 0.01% in standalone mode
Power @ 1.0PF 150kVA
Overload 150% for 30 seconds

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

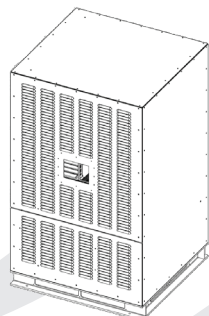
Mechanical
Enclosure RAL9003
Protection IP23
Input transformer H: 1,100 W: 553 D: 678 mm 720 kg
Electronics module H: 1,500 W: 900 D: 850 mm 760 kg
Total weight 1,480 kg

Supporting Documentation
Service level Service Levels Agreements 2010
Electrical VSP520150-0150 E001
Mechanical VSP520150-0150 M001

Input TX



Electronics Module



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