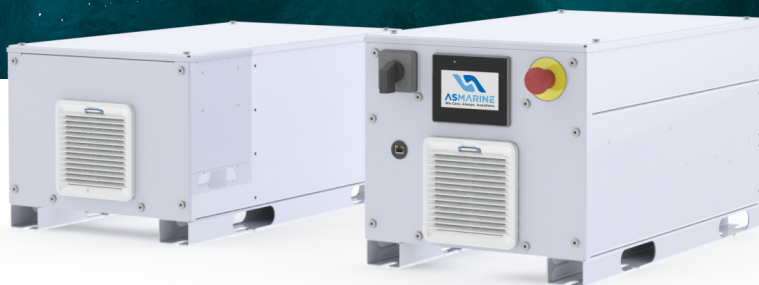




RATED POWER
10 kVA 12 kVA 15 kVA

Shore Power Converter AC/AC Single Phase

SPLIT CABINET



Advantages for the vessel and owner



- **Protection of the vessel's electrical system** thanks to the galvanic isolation provided by the native isolation transformer on all converters used on this line
- Converters **can operate in automatic mode with any voltage and frequency** provided by the dockside service, anywhere in the world
- **Shore-side voltage fluctuations do not affect onboard power quality.** The converter continues to deliver stable voltage, constant frequency and clean current regardless of what occurs at the dockside
- **High performance** thanks to the state-of-the-art technologies available on the market, lower electricity costs
- Thanks to the native double conversion system, the converter is able to **regenerate any excess power delivering it to the grid**
- Each converter on this line **consists of modules that are easily assembled on site** as and when needed; this provides for more straightforward logistics and swifter installation
- **No calibration is required** over time and routine maintenance is reduced to a minimum



ON Board

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SPC010-S1 SPLIT 10KVA
SPC012-S1 SPLIT 12KVA
SPC015-S1 SPLIT 15KVA

Shore Power Converter AC/AC Single Phase

SPLIT CABINET



Main technical specifications



- Use of **high efficiency** isolation transformers
- Use of **silicon carbide modules to contain volume and temperatures**, increasing overall efficiency
- **Protective coating of all printed circuit boards installed**, to guarantee longer service life and higher quality operation over time
- **Monitoring and logging** of operating and cooling system **temperatures** for precise component management
- **Modular design** for faster and easier maintenance
- **Touchscreen monitor** for user-friendly operations
- **Standard emergency push-button**, input and output contactor installed on each machine to boost safety levels
- **Aluminium and Stainless Steel** structure, painted to prevent corrosion over time
- **User-enabled auto-restart.** This allows the converter to automatically power up again after a dockside blackout

Optional accessories



- Second remote touchscreen panel
- Communication with the vessel's PMS via Modbus RTU (RS485)
- Communication with the vessel's PMS via Modbus TCP/IP (Ethernet)
- Remote support (via internet network provided by the vessel)
- Multi-language control display
- Seamless transfer between converter and generator
- Up to 4 clean contacts to interface with the vessel's system



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SPC010-S1 SPLIT 10KVA
SPC012-S1 SPLIT 12KVA
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Shore Power Converter AC/AC Single Phase

SPLIT CABINET

TECHNICAL DATA

SPC010-S1 SPLIT

SPC012-S1 SPLIT

SPC015-S1 SPLIT

Input

Power Form	Single Phase		
Input connection	Single Cord		
Voltage	180-260 or 190/520* VAC (to be specified)		
Frequency	45/65 Hz		
Max current	Max 48 A	Max 58 A	Max 73 A
Power factor	≥ 0.99 at rated load		
Inrush current	<50% of nominal current		
THDi	<3% at rated load		
Phase sequence	Any		
Protections	Overvoltage, Overcurrent, Shortcircuit, Loss of Phase, Transients		

* 190-260 and 350-520 VAC

Output @ p.f. 1

Power form	Single Phase
Output connection	Single/Split
Voltage	110/220 - 115/230 - 120/240 VAC 220 - 230 - 240 VAC
Frequency	50 or 60 Hz
THDv (linear load)	<1.5%
Voltage tolerance	0.5%
Frequency tolerance	0.1%
Overload 125%	10 min
Overload 150%	3 min
Overload 200%	4 sec

Environment

Working temperature	0-50 °C**
Humidity	0-95% non condensing
IP grade	IP 20***
Cooling	Forced Air cooled

** derating over 40°C *** other IP standards available on request

Dimensions and Weight

Width Transformer module / Power module	37.0 cm - 14.6 in / 37.0 cm - 14.6 in
Depth Transformer module / Power module	65.0 cm - 25.6 in / 65.0 cm - 25.6 in
Height Transformer module / Power module	30.0 cm - 11.8 in / 34.5 cm - 13.6 in
Weight Transformer module / Power module	120 kg / 35 kg****

**** weight may vary depending on power rating and configuration

Clearances

Sides	0.0 cm - 0.0 in
Over	12.0 cm - 4.7 in *****
Back	10.0 cm - 3.9 in
Front	45.0 cm - 17.7 in

***** (for maintenance)



ON Board

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SPC010-S1 SPLIT 10KVA
SPC012-S1 SPLIT 12KVA
SPC015-S1 SPLIT 15KVA

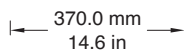
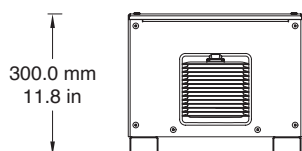
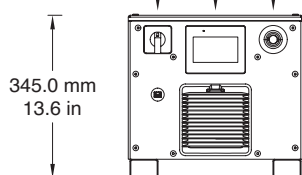
Shore Power Converter AC/AC Single Phase

SPLIT CABINET

TECHNICAL DRAWINGS



EMERGENCY BUTTON
TOUCHSCREEN
SWITCH ON-OFF

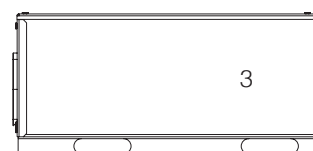
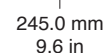
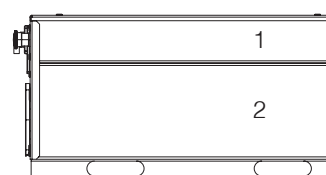
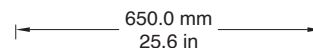
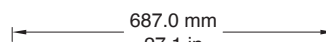


AIR EXHAUST

FRONT VIEW



AIR FLOW



VIEW SIDE

- 1 Control module - detachable
- 2 Power module - detachable
- 3 Transformer module - detachable



ON Board

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