



RATED POWER
30 kVA 40 kVA 50 kVA

Shore Power Converter AC/AC Single/Three Phase

SINGLE 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



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The information and specifications provided are indicative only and do not constitute a contractual commitment. The manufacturer reserves the right to make modifications without prior notice.



SPC030-ST 30KVA
SPC040-ST 40KVA
SPC050-ST 50KVA

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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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TECHNICAL DATA

Input SPC030-ST SPC040-ST SPC050-ST

Power Form	Single Phase/Three Phase		
Input connection	Single Cord		
Voltage	190/520* Vac		
Frequency	45/65 Hz		
Max current	Max 84 A	Max 111 A	Max 139 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/Three Phase (to be specified)									
Output connection	Single Phase/Three Phase/Three Phase + N (to be specified)									
Voltage	220	230	240	120/208	127/220	220/380	230/400	240/415	254/440	277/480 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	42.5 cm - 16.7 in
Depth	70.0 cm - 27.5 in
Height	83.5 cm - 32.9 in
Weight	320 kg****

**** weight and dimensions 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)



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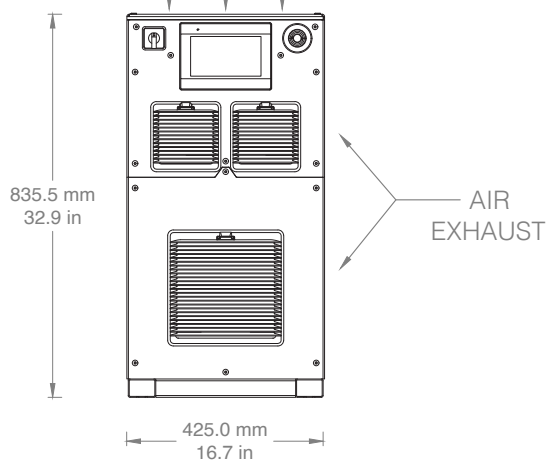
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TECHNICAL DRAWINGS

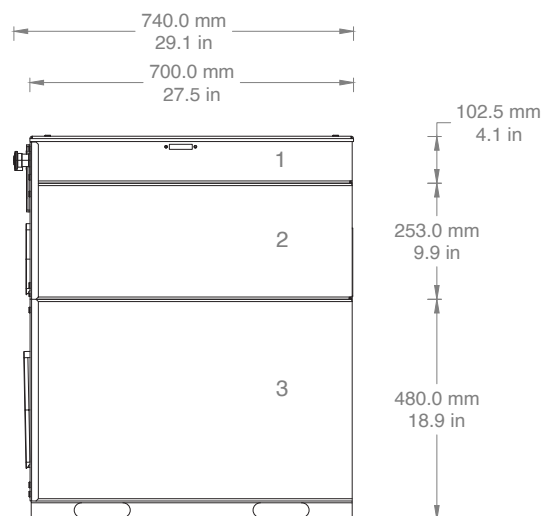


EMERGENCY BUTTON
TOUCHSCREEN
SWITCH ON-OFF



FRONT VIEW

AIR FLOW



SIDE VIEW

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



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