



RATED POWER
20 kVA 25 kVA

Isolation Voltage Conditioner

SIDE CABLE ENTRY



Advantages for the vessel and owner



- **Two-way voltage regulation, a step beyond most competitors.** Most stabilizers only boost weak shore power. The **IVC works both ways**: it raises the voltage when shore power is low and lowers it when it runs high, keeping the output steady at either extreme.
- **Input connection up to 480 VAC.** Essential when the required power is not available from the dock at low voltage.
- **Complete protection** for the onboard electrical system. A **galvanic isolation transformer** is built into every unit, **shielding the vessel from shore-side electrical faults** and stray currents.
- **Precise, finely tuned output.** **Six switching levels** deliver a more accurate and stable output voltage.
- **Shore-side fluctuations never reach the system.** Voltage spikes and dips on the quay stay on the quay. **The IVC monitors shore voltage continuously and corrects it automatically.**
- **Every correction is performed statically and seamlessly.** Neither the vessel nor the owner perceives the individual correction.
- **Higher efficiency by design.** Toroidal transformers run **cooler and more efficiently** than conventional transformers type cores.
- **Virtually maintenance-free.** **No periodic calibration** and minimal routine maintenance, year after year.



ON Board

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.



IVC020-SE
IVC025-SE

20kVA
25kVA

Isolation Voltage Conditioner

SIDE CABLE ENTRY



Main technical specifications



- **Conformal-coated electronics.** Every printed circuit board is **protected against humidity and salt air** for a longer service life in the marine environment.
- **Continuous thermal monitoring.** Operating and cooling-system temperatures are tracked and logged to protect components and extend lifespan.
- **20 ms response.** The IVC samples the line and corrects, when needed, every 20 milliseconds.
- **Touchscreen control.** An intuitive **touchscreen display** makes operation simple
- **Input and output contactors.** Fitted as standard on every unit for an **added layer of safety.**
- **Corrosion-resistant build.** A painted **aluminium and stainless-steel structure** stands up to the marine environment over time.
- **Automatic restart.** A user-enabled auto-restart brings the unit back online on its own after a shore-power blackout.

Optional accessories



- Remote second touchscreen panel
- Integration with the vessel's PMS via Modbus RTU (RS485)
- Integration with the vessel's PMS via Modbus TCP/IP (Ethernet)
- Remote support over the vessel's internet connection
- Multilingual control display
- Up to four dry (clean) contacts for interfacing with onboard systems
- By-pass system — maintains galvanic isolation while the electronic control is bypassed



ON Board

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.



IVC020-SE **20kVA**
IVC025-SE **25kVA**

Isolation Voltage Conditioner

SIDE CABLE ENTRY

TECHNICAL DATA

IVC020-SE

IVC025-SE

Input

Power Form	Single Phase	
Input Connection	Single cord	
Voltage	180-520* VAC	
Frequency	45/65 Hz	
Rated Current	83 A	104 A
Istant Peak Current	Max 200 A	Max 247 A
Inrush Current	<50% of rated current	
Cable Entry	Side	
Phase Sequence	Any	
Protections	Overvoltage, Undervoltage, Overcurrent, Loss of Phase	

* 180-260 and 350-520 VAC

Output

Power Form	Single Phase	
Output Connection	Single Phase/Split phase	
Voltage	110/220 - 115/230 - 120/240 VAC 220 - 230 - 240 VAC	
Frequency	as Input	
Voltage Tolerance	±5%	
Efficiency	> 97% at rated load	
Overload 110%	20 min	
Overload 150%	1 min	
Overload 200%	4 sec	

Environment

Working Temperature	0-50 °C**
Relative Humidity	0-95% non condensing
IP Grade	IP 44***
Cooling	Forced Air cooled

** derating over 45°C *** other IP standards available on request

Dimensions and Weight

Width	refer to drawings at page 4/4
Depth	refer to drawings at page 4/4
Height	refer to drawings at page 4/4
Weight	188 kg****

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

Clearances

Sides	7.0 cm - 0.0 in
Over	12.0 cm - 4.7 in *****
Back	0.0 cm - 0.0 in
Front	45.0 cm - 17.7 in

***** (for maintenance)

ALL TECHNICAL DATA ARE TO BE CONSIDERED AS DECLARED AT THE NOMINAL INPUT VOLTAGE OF 240 VAC



ON Board

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.



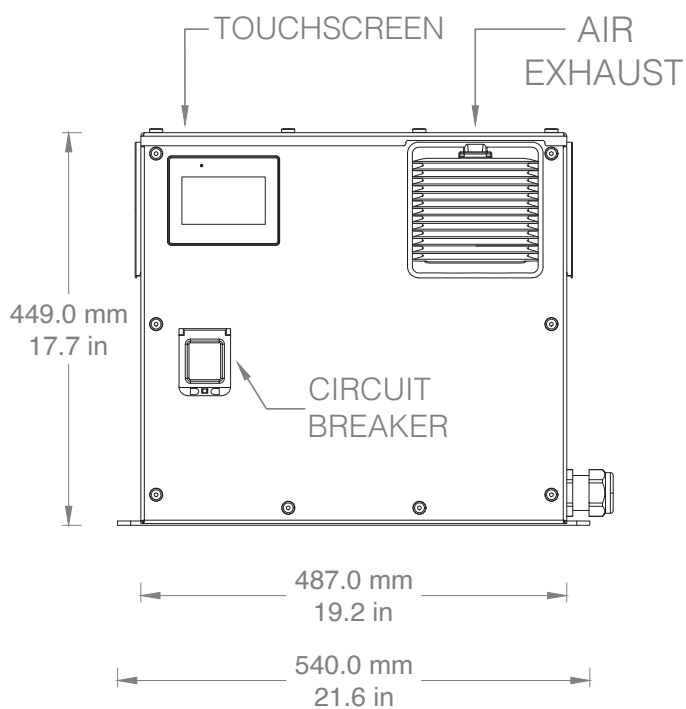
IVC020-SE
IVC025-SE

20kVA
25kVA

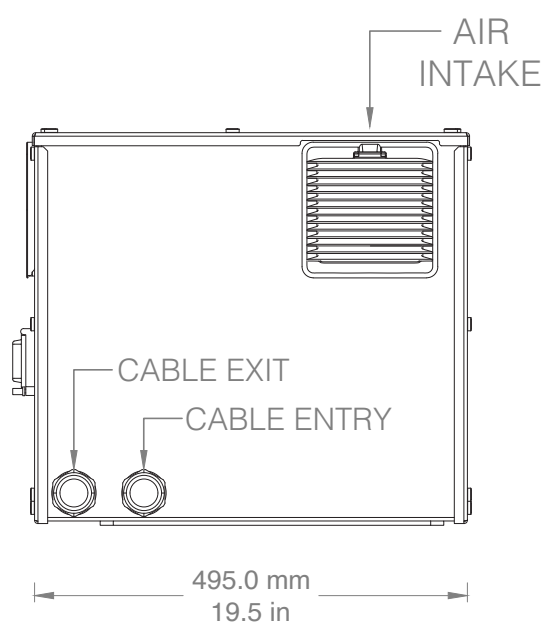
Isolation Voltage Conditioner

SIDE CABLE ENTRY

TECHNICAL DRAWINGS



FRONT VIEW



SIDE VIEW



ON Board

*This drawing is the property of A.S. Marine Power Solutions.
Unauthorized reproduction, disclosure, or use is strictly prohibited.*

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.