



RATED POWER
12 kVA 15 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
- **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.
- **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.
- **Precise, finely tuned output.** **Six switching levels** deliver a more accurate and stable output voltage.
- **Virtually maintenance-free.** **No periodic calibration** and minimal routine maintenance, year after year.



ON Board

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IVC012-SE
IVC015-SE

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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



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TECHNICAL DATA

IVC012-SE

IVC015-SE

Input

Power Form	Single Phase	
Input Connection	Single cord	
Voltage	170-260 VAC	
Frequency	45/65 Hz	
Rated Current	50 A	63 A
Istant Peak Current	Max 120 A	Max 150 A
Inrush Current	<50% of rated current	
Cable Entry	Side	
Phase Sequence	Any	
Protections	Overvoltage, Undervoltage, Overcurrent, Loss of Phase	

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	82 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



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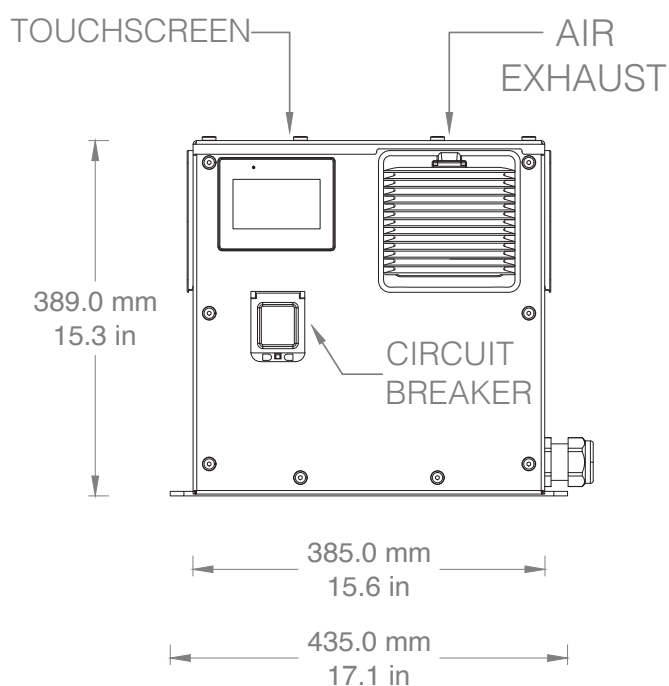
IVC012-SE
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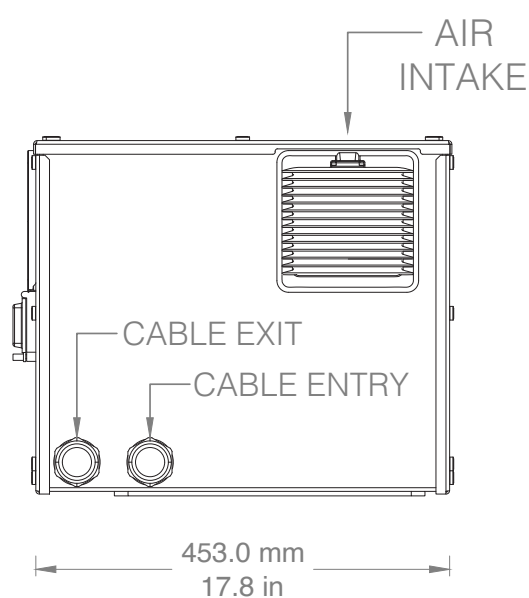
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SIDE CABLE ENTRY

TECHNICAL DRAWINGS



FRONT VIEW



SIDE VIEW



ON Board

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