



**RATED POWER**  
**20 kVA 25 kVA**

## Isolation Voltage Conditioner

**BOTTOM 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-BE**  
**IVC025-BE**

**20kVA**  
**25kVA**

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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

### IVC020-BE

### IVC025-BE

#### 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         | Bottom                                                |           |
| 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



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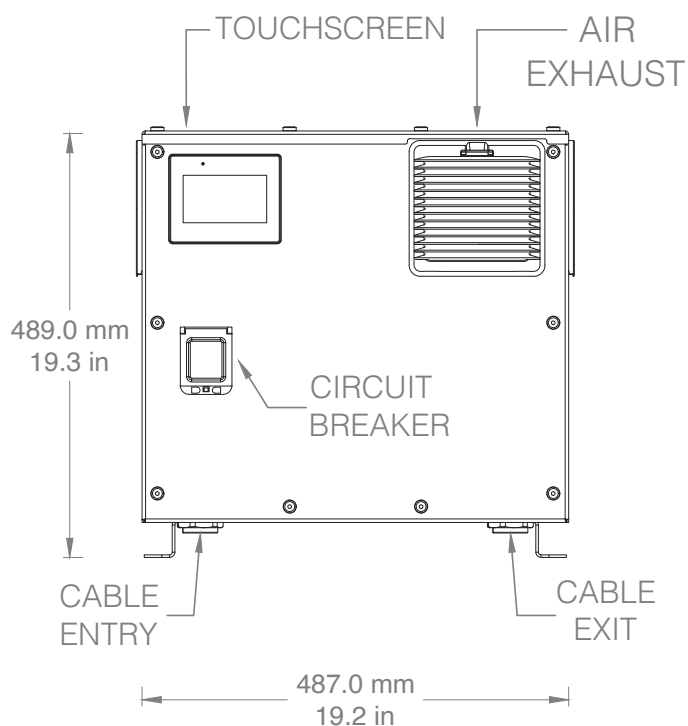


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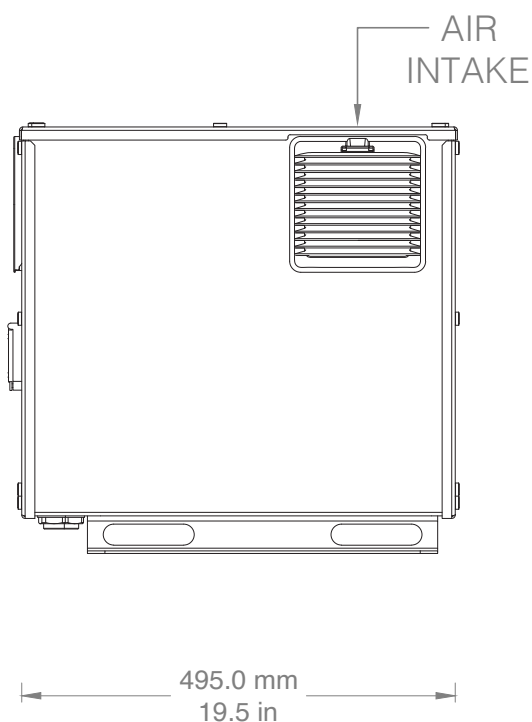
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**BOTTOM CABLE ENTRY**

### TECHNICAL DRAWINGS



**FRONT VIEW**



**SIDE VIEW**



**ON Board**

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