

IT3600



Warranty 3 years



8.9/10 Repairability index



Presentation

The **IT3600** range of CRISTEC isolation transformers function is to provide a complete (phase, neutral & earth) galvanic isolation between the boat on-board power supply network and the shore. This separation prevents ground current circulation between the supply and distribution lines, which are the source of corrosion on the metal parts of a vessel in contact with sea water (phenomenon similar to electrolysis). This isolation function is made of a toroidal transformer with dual primary and secondary winding.



Automatic soft-start

The system has an automatic soft-start function to limit inrush current when the device is switched on, avoiding inadvertent tripping of shore network protections (premagnetising circuit).



Parallel connection

2 isolation transformers can be connected in parallel to reach a maximum power of 7200W (32A @ 230VAC). Please contact us for advice.



Thermal protection

The device has an automatic 2 speed ventilation system (half speed below 45 °C in the casing, full speed above 45 °C). A safety thermal sensor protects the equipment in case of overheating (too high ambient temperature, overloading, etc).

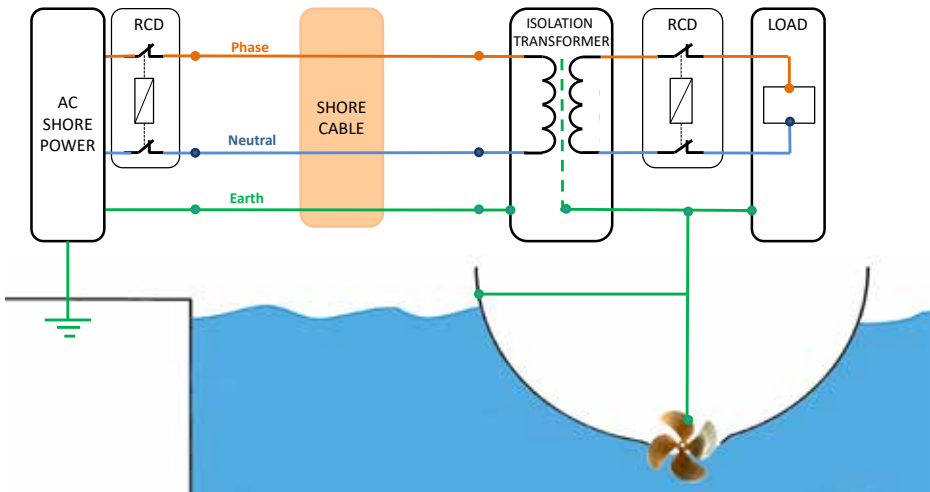


Automatic versus Manual

Automatic version of IT3600 isolation transformer automatically adapts to the grid voltage of the power source whether 115 or 230 VAC. Manual transformer requires the shift of internal cables. The grid frequency is not converted.

| Part Number | IT-3600-M | IT-3600-A |
|---------------------|--|-----------|
| Commutation | Manual | Auto |
| Input voltage | 115/230VAC | |
| Output voltage | 115/230VAC | |
| Frequency | 50/60Hz | |
| Current | 16/32A | |
| Power | 3600W | |
| Soft-start | Yes | |
| Ambient temperature | From -20°C to +40°C (-4°F to 104°F) | |
| Ventilation | Half speed (reducing acoustic noise) | |
| Humidity | 95% without condensation | |
| Transformer type | Toroidal | |
| Casing material | Steel with anti-corrosion treatment | |
| IP protection index | IP20 (IP21 on request) | |
| Dimensions | h 360 x L 257 x l 221 mm (h 14.17 x L 10.12 x l 8.70 in) | |
| Weight | 24 kg (52.9 lb) | |
| Standards | IEC 60076 | |

Principle schematic



Parallel connection

