

Which isolator?

You supply a range of isolators : Which one do I need?

Safeshore supply isolators worldwide. Different countries have varying legislation & shore power mains A.C. supplies. To comply with legislation & recommendations we manufacture a full range of models. All models are suitable for use with 110 or 240 volts shore power supplies.

ABYC in the USA sensibly recommend isolators which have fault current handling at least 33% above the maximum breaker current available at the shore power outlet. This can be 63 amps so you need an isolator with 100 amp fault current capability.

Model GI 100 is a standard isolator suitable for use with this type of mains supply.

Models GI 100smi & GI 100sm are also recommended for 63 amp supplies & have the addition of status monitoring enabling quick identification of fault conditions & easy testing of the isolator.

GI 100smi has **built in** status monitor :Use this model if you plan install the isolator in a position where you easily see the internal led's.

GI 100sm has **remote** status monitor :Use this model if the isolator is not easily visible. (simple 2 wire connection)

UK & Europe

Shore power in the UK & most of Europe is normally limited to 35 amps . Again it is wise to use an isolator with a fault current capacity in excess of the RCD (residual circuit device) & MCB (maximum current breaker) ratings. Safeshore supply 70 amp isolators for the UK / European markets although there is no reason not to employ the 100amp units in the UK : The isolator current rating is the maximum recommended fault current the unit can handle under severe electrical fault conditions: the higher the amperage rating the more robust the isolator.

Model GI 70 is the standard isolator suitable for the UK / European markets.

Models GI 70smi & GI 70sm are also recommended for 35 amp supplies & have the addition of status monitoring enabling quick identification of fault conditions & easy testing of the isolator.

GI 70smi has **built in** status monitor : Use this model if you plan install the isolator in a position where you can easily see the internal led's.

GI 70sm has **remote** status monitor : Use this model if the isolator is not easily visible. (simple 2 wire connection)

Do I need a status monitor version?

Modern boat electronics & appliances now utilise switched mode power supplies & radio frequency suppression which often pass low level pulses down the earth wire and which can, in severe cases combine with low level galvanic currents & "turn on" the isolator.

Although harmless these voltage "spikes" are capable of affecting the efficiency of a standard isolator.

Status monitor versions detect this leakage & indicate fault condition when the "turn on" threshold of the isolator is reached. The "turn on" threshold of the status monitor versions is higher than with conventional isolators offering an increased level of galvanic protection & effectively blocking harmless low level pulses.

In the event of electrical fault conditions the status monitor indicates the type of leakage present & also allows easy testing of the isolator functions.

Do I need a larger isolator for a larger vessel?

No : The size or construction of the vessel does not affect the operation of the isolator.

How do I fit the isolator?

Safeshore isolators are supplied with both visual & comprehensive installation instructions & can easily be installed by competent boat owners. We also have a technical helpline : 01977 513607 / 00 44 1977 513607