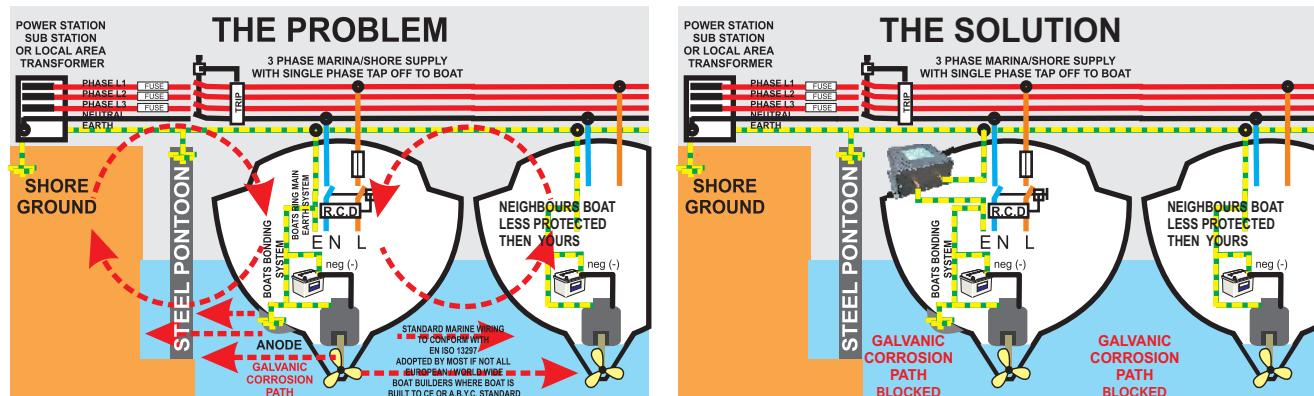


# Pro Save Range - Galvanic Isolators / Zinc Savers

## 16 - 120A Range

In order for modern boat builders to comply with modern CE standards such as EN ISO 13297 they must fit the shore earth wire to your boats bonding system which is also connected to the hull / anodes etc. This ensures that any 230V mains faults will operate the R.C.D on the boat in order to save your life. However, now your boat is connected to the rest of the boats in the marina. This results in 2 main problems. Firstly, any increase in voltage on any earth in the marina may result in the dissolving of your anodes. Secondly, if you have a zinc / magnesium / aluminium anode on your boat and the boat next to you (or marina) does not then your boat shall be protecting everyone resulting in dramatic losses of anode.

The solution, Sterling's **Pro Save**. The zinc savers maintain the continuity with the earth to ensure safety (EN ISO 13297 standard) but prevent any stray currents coming up the earth. The Pro Save has to be built to stringent testing and has to be able to carry its current rating for 24 hours without exceeding 90 degrees centigrade.



### 16A 30A 50A models

**Rate to AC shore power rating.**  
Small marinas 16A.  
Medium Marinas 30A.  
Large Marinas 50A.



For European use  
only due to ABYC non  
compliance.

Refer to overleaf for  
USA model ABYC  
compliant.



Available with or without Internally  
installed capacitors. **The 30A and  
50A models have 25,000µF 2.5V  
capacitors installed.**

This raises performance in extreme  
AC leakage conditions.



ZS30A / ZS30C model

ZS50A / ZS50C models

#### Galvanic Isolators / zinc savers Standard euro version

AC (A)	Size mm	Weight Kg	Code
16	120 x 100 x 90	1.0	ZS16A
30	220 x 120 x 100	1.5	ZS30A
50	220 x 165 x 100	1.8	ZS50A

#### Galvanic Isolators / Zinc Savers Standard Euro Version with Cap

AC (A)	Size mm	Weight Kg	Code
30	220 x 120 x 100	1.5	ZS30C
50	220 x 165 x 100	1.8	ZS50C

## Pro Save W - Waterproof Zinc Saver up to 110A

The new Pro Save W offers all the same great protection as the Pro Save A+C models but in a new waterproof plastic package:

Stainless steel hardware and very low footprint, made possible by a new induction fan cooling system which only operates when the unit is in a major fault condition.

built to  
**IP66**  
WATERPROOF  
Electrics  
IP55  
Replaceable fan

In fault condition the product does not exceed 90 deg C, during tests the product 24 hr fault temperature was sustained well below:

Waterproof Zinc Saver off fault plus 20%			
Model	Fault Current ( 24 hours)	End Temp (Deg C)	
32A	41A	65	
64A	85A	78	
110A	152A	75	

Waterproof Galvanic Isolators / Zinc Savers				
AC (A)	Size L x W x D mm	Weight kg	Connector	Code
32	150 x 120 x 118	1.0	6 mm	ZSW32
64	150 x 120 x 118	1.0	6 mm	ZSW64
110	155 x 170 x 118	1.8	8 mm	ZSW110



110A model

**EN ISO 13297**  
Small Craft Directive

**Safety first:**  
This product complies fully to European standard EN ISO 13297. Not to be used where UL / ABYC fail safe standard are required.  
See below.



32A / 64A model

## Pro Safe FS - ABYC / UL Zinc Savers

ABYC A-28 July '08 Compliant and Fail Safe Certified. Certified by Underwriters Laboratories (**UL205007**). Insures shore power safety ground wire is maintained through the isolator. Meets **ISO 8846** and can be mounted within an engine compartment.

**ProSafe FS** are built on robust FlatPack semiconductor platforms ensuring that in the event of a failure, the failure is safe, by not compromising the ground continuity on-board when connected to AC shore power.

Gold Plated Terminals.  
Ignition protected.



ProSafe FS30 Patent Pending

**Innovative Design.** The FS 60 will cool itself in the event it must conduct current insuring cooler operation in this mode.

**Flat Pack High Power Semiconductors.** Robust high power diodes allow the FS Series to meet the new Fail Safe criteria for conducting inrush currents of 5,000A for the required duration period.

**ProSafe FS** installs easily and does not require a dedicated monitor to verify the operational status of the galvanic isolator as required by non Fail Safe Certified galvanic isolators.

Specifications:	ProSafe FS30	ProSafe FS60
shore cord inlet compatibility (A)	15A 16A 20A 30A	Dual (15A 16A 20A 30A) Single 50A
ratings VAC/Max current / Hz	120/240 VAC/41A 50Hz or 60 Hz	120/240 VAC/82A 50Hz or 60 Hz
Max Unit Temperature	50 DegC	50 DegC
size L x W x H mm	175 x 185 x 65	190 x 165 x 95
weight	1.5 Kg	1.8 Kg

Galvanic Isolators / zinc savers Fail Safe New ABYC			
AC (A)	Size mm	Weight Kg	Code
30	175 x 185 x 65	1.5	ZSFS30
60	190 x 165 x 95	1.8	ZSFS60