



s u p p l i e r s o f a i d s t o n a v i g a t i o n

Solar Power Accessories

Contrary to popular belief, solar panels do not actually power navigation lights. The purpose of the solar panels is to recharge a battery or bank of batteries during the day which in turn powers the light during the night.

Fitting of the correct size of solar panel and battery is very important. The batteries must be sized to allow the light to operate for several days even when there is little or no solar input in the winter months. Normally a reserve capacity of 30 days is allowed but is usually reduced for fixed lights such as jetty lights.

A range of sealed deep cycle batteries are available to suit the needs of a solar powered or battery backed mains system. Their low self discharge characteristics are an important feature for solar powered installations.

Solar regulators are another important part of a solar powered system by controlling the power output by the solar panel and safely charging the battery without either overcharging or allowing them to fully discharge.

The Solsum 8.8 regulator uses a series of LEDs to indicate the battery condition. Additional features include cycle charging, boost charging and temperature compensation. The PR 1010 regulator utilises more sophisticated electronics to learn the batteries stage of charge and can more accurately predict the charge remaining. Suitable for loads of up to 10A, state of charge, battery voltage, all currents, operational status and a detailed error report can all be displayed on the LCD display.



- Highly efficient
- Maximise battery and system performance
- Protection against operation errors wrong polarity connection
- LCD display on PR Series
- LED Voltage display on Solsum Series
- Fuse or electronic overcurrent protection
- Maintenance free
- Sealed Lead Acid Batteries
- Gel Batteries
- Low Self Discharge

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Solar Power Accessories S P E C I F I C A T I O N S

Regulators	Steca Solsum 8.8	Steca PR 1010
Max charge current at 50°C	8A	10A
Load current at 50°C	8A	10A
Fuse/overcurrent disconnect	10A Fuse	12.5A Disconnect
Dimensions	85x98x34mm	1897x96x44mm
System Voltage	12/24V	12/24V



Batteries	Yuasa	Sonnenshein	Squadron
Capacity	17Ahr	60Ahr	110Ahr
Type	Valve Regulated Lead Acid	Valve Regulated Lead Acid, Deep Cycle	Sealed Absorbed Glass Mat, Deep Cycle
Dimensions	181x76x167mm	306x175x190mm	331x175x240mm
Weight	6.3kg	21.8kg	33.0kg



Hydrosphere has been a respected supplier of cost effective solutions to the marine industry for over a decade. The company offers a wide range of mooring and navigation buoys, LED navigation lights, sector lights, rotating beacons, leading lights, jetty masts, modular pontoon systems, beach and zone marking products and associated moorings. Installation and maintenance services are available for all our products and systems.

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