

# SCS85LED SELF CONTAINED MARINE LIGHT SYSTEM



The SCS85LED represent the state of the art in LED lighting system. System components include a solar array of one or more modules, a battery (to store sun generated energy until required), power conditioning devices to prevent overcharging of the battery and loss of power through the array at nighttime, a mounting stanchion with standard lantern bolt pattern, battery and battery box, and precision fresnel optic with a high efficiency, high flux LED engine mounted at the focal point of the lens. All system components are designed to compliment each other for maximum efficiency and reliability in marine applications.

The SCS85LED system is designed to be a self-contained marine lantern for short-range buoy and structure applications. It may be bolted in place of an LBEA-85 lantern or standard 155 mm lanterns. This unit is a complete stand alone system with light, solar array(s), battery, battery box, mounting frame and wiring.

## TECHNICAL DATA

- **Lantern:** 85 mm precision, UV resistant polycarbonate fresnel lens in red, green, and yellow with high flux LED light engine at the focal point of the lens. Vertical divergence is 15 degrees. Range may be varied from one to five miles by programming of the current input to the LED engine. The control electronics features 15 selectable and one user programmable flash rhythms, solar charge regulator, blocking diode and photocell.
- **Solar Array:** Option of one or two 12-volt 5-watt modules or one or two 12-volt 10-watt industrial grade solar modules mounted on an anodized aluminum winged frame. Frame is adjustable for 15 degrees to 75 degrees tilt in 10-degree increments in order to obtain the maximum solar charging available for a wide range of site conditions and applications.
- **Battery:** 12 volt 18 Ampere-hour Maintenance-Free, Valve-Regulated, Sealed, Deep-Cycle, Lead Calcium Battery. Battery is leak proof, spill proof, operates in any position and never needs water. It is freezing tolerant with low self-discharge and

extended partial state of charge operation. It has a long service life with deep cycle capability.

- **Construction:** Anodized aluminum stanchion and solar panel frame, non-metallic battery box with nylon lifting strap. Weight 15 kg. Dimensions (maximum): 840 mm diameter by 750 mm height. Mounts on standard 3-hole or 4-hole 200 mm PCD bolt pattern.



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