

5-8NM+ Solar Marine Lantern

SL-C510

Standard	 IR Programmer	Optional	 GPS Sync	 AIS
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The SL-C510 is a robust, class leading, completely self-contained 5–8NM+ Solar LED Lantern. Designed and manufactured to withstand the tough marine environment, providing years of reliable, low-maintenance service.

The SL-C510 can be programmed to provide a standard 256 flash characteristics using an IR programmer. New this year, the lantern can be programmed to provide any effective intensity from 10-100 cd. An OLED screen with touchpad for quick and easy diagnostic checks by maintenance staff is standard on this model.

The four (4) premium-grade solar modules are integrated into the assembly, and mounted to collect sunlight at all angles. Available in a compact or extended form factor for customer convenience.

The SL-C510 (large power supply model) has four 8.4-watt panels (33.6 watt total) making this model perfect for use in lower sunlight areas or where more demanding duty cycles are required. The compact model consists of four 5-watt panels (20 watt total) offering a smaller installation footprint.

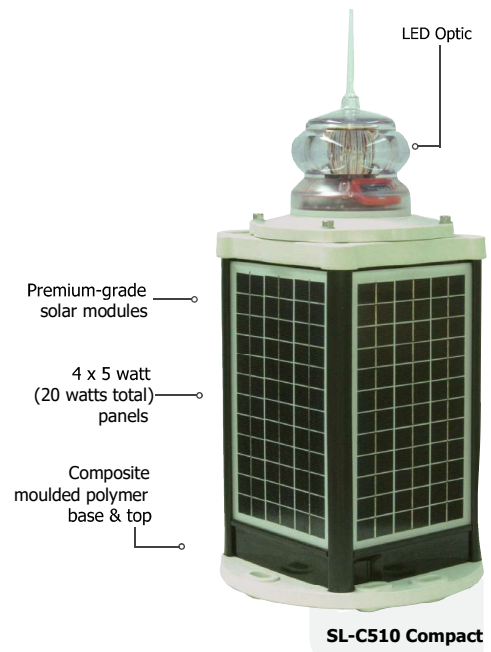
Integrated, internal AIS is available as type 1 or type 3, operating on the international VHF Marine Mobile Band for AtoN operational status and positioning information including message 21.

The base and top of the lanterns are made from composite moulded polymer with UV-stabilised rubber corners and gaskets providing dual ingress protection to IP66 and IP68 – the best in the industry. A handle is incorporated into the chassis for safe lifting. The tough, polycarbonate lens is specifically designed for use with LEDs and incorporates an environment-friendly spike – deterring unwelcome bird life.

The lens design also ensures that vessel operators clearly see the light from above when passing the AtoN.

Programmable features include; flash code adjustment, battery diagnostics, lux adjustment and hibernation mode.

The 3 & 4-hole bolt pattern base fits directly onto existing 200mm bolt pattern industry standard mounts for ease of installation.



Features

- GPS synchronisation
- AIS Type 1 and Type 3
- Environmentally friendly bird spike
- Composite moulded polymer top and base
- OLED screen with touchpad in lens

High Performance

- Premium-grade solar modules with individual MPPT
- Heavy-duty aluminium chassis
- User-replaceable components including battery
- 200mm bolt pattern for immediate installation

Cost Effective

- Low maintenance costs
- Energy efficient light solution

Applications

- Tough marine environments

Compliance


- IALA

Optional

- IR programmable
- Satellite communications

Technical Specifications **

SL-C510	Compact Chassis	Extended Chassis
Light Characteristics		
Light Source	LED	
Available Colours	Red, Green, White, Yellow, Blue	
Effective Intensity Range (cd)	White: 10-100, Red: 10-100, Green: 10-100, Yellow: 10-77	
Visible Range (NM)	AT @ 0.74: 5-8NM+	
Horizontal Output (degrees)	360	
Vertical Divergence (degrees)	+/- 3.5° at 50% of peak intensity	
Available Flash Characteristics	256 Available Flash Characteristics	
Intensity Adjustments	Can be user-set to any required effective intensity	
LED Life Expectancy (hours)	>100,000	
Electrical Characteristics		
Current Draw (mA)	Refer to Sealite Solar Calculator	
Circuit Protection	Integrated	
Nominal Voltage (V)	12	
Autonomy (nights)	>110 (14 hour darkness, 12.5% duty cycle)	
Solar Characteristics		
Solar Module Type	Monocrystalline	
Output (watts)	20.0 (4 x 5 watt)	33.6 (4 x 8.4 watt)
Charging Regulation	Microprocessor controlled	
Power Supply		
Battery Type	Gel SLA	
Battery Capacity (Ah)	12	24
Nominal Voltage (V)	12	
Physical Characteristics		
Body Material	Aluminium chassis with UV-stabilised rubber corners & gaskets. Polymer composite-moulded top and base	
Lens Material	LEXAN® Polycarbonate – UV-stabilised	
Lens Diameter (mm/inches)	98 / 3 ^{7/8}	
Lens Design	LED Optic	
Mounting	3 & 4 hole 200mm bolt pattern	
Height (mm/inches)	492/19.37	648/25.5
Width (mm/inches)	234/9.05	234/9.05
Mass (kg/lbs)	9.2/20.3	15.2/33.5
Service Life	15 years ^	
Environmental Standards		
Shock	MIL-STD-202G Test Condition H, Method 213B 30G vertical and 35G horizontal shock	
Vibration	MIL-STD-202G, Test Condition B, Method 204D 5G in all axes	
Ice Loading	Rated to withstand 22kg/m ²	
Salt Fog	MIL-STD-810F Method 509.4	
Rain Test	MIL-STD-810F Method 506.4 procedure 1	
Wind Exposure	Rated to withstand 140 knots	
Hail Impact	Rated to withstand 25mm diameter ice ball impact at 20m/s	
Humidity	MIL-STD-810F method 507.4 (0 – 100%, condensing)	
Temperature Range	-30 to 50°C	
Certifications		
CE	EN61000-6-2:2005, IEC61000-4-2:2008, IEC61000-4-3:2010	
IALA	Signal colours compliant to IALA E-200-1	
Quality Assurance	ISO 9001:2015	
Ingress Protection	IP68 and IP66	
Intellectual Property		
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd	
Warranty *	3 years	
Options Available	<ul style="list-style-type: none"> · 50mm pole mount adapter plate · IR Programmer · External ON/OFF Switch · External Battery Charging Port · Satellite Communications · GPS Synchronisation can be disabled · 10° Lens · AIS Type 1 or Type 3 	


 * Specifications subject to change or variation without notice
 * Subject to standard terms and conditions
 † Intensity setting subject to solar availability
 ^ Refer to the Sealite website under the warranty section

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Technical Illustrations

