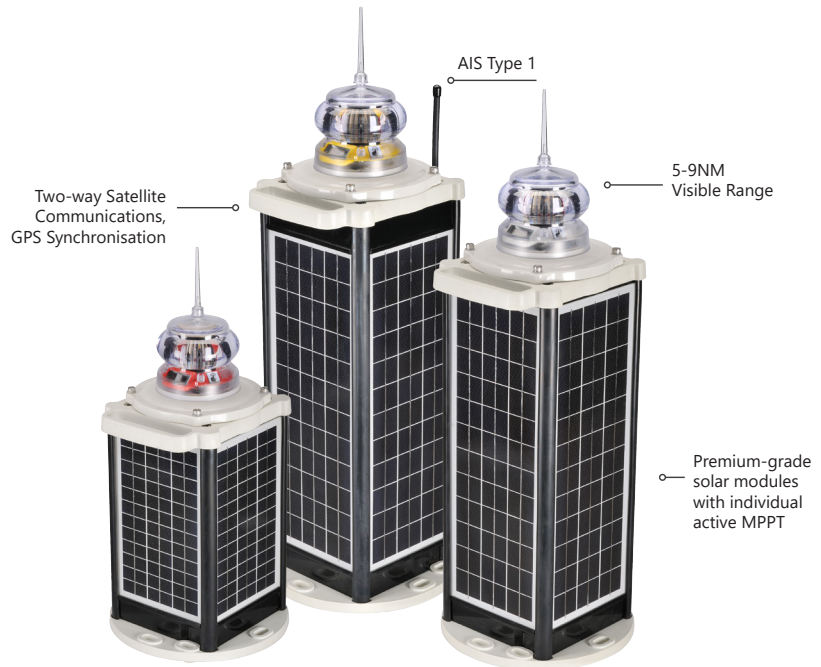




The SL-C510 is a high intensity, completely self-contained 5–9NM solar LED marine lantern. The range is available in three chassis sizes with satellite connectivity offered as an option.

### Key Features:

- Intensity Range of 5-9NM+
- Enhanced Optics
- High performance, premium-grade solar modules with active MPPT
- Satellite Communications Enabling Two-Way Monitoring
- Bluetooth® Connectivity
- Integrated, Internal AIS Type 1



### Intensity Range

The SL-C510 lantern range utilise leading technology LEDs for a visible range of 5-9NM.

### Enhanced Optics

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

### Solar Efficiency

Designed with next generation solar technology including individual active MPPT (maximum power point tracking), maximising the power extracted from the solar panels for improved performance and efficiency.

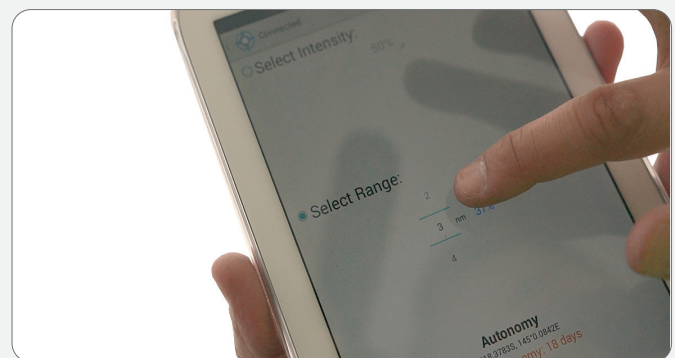
### OLED Screen with Touchpad

The conveniently located OLED (Organic Light-Emitting Diode) screen with touchpad allows maintenance personnel to check the diagnostics of the lantern with the touch of a button..

### Accessible Via Star2M

The SL-C510 range is available with an optional integrated Iridium® Satellite module enabling two-way monitoring and control using the Iridium® Low Earth Orbit satellite network.

Available in three chassis sizes (compact, extended or AIS) to accommodate larger battery capacity and additional solar charging capability.



## SL-C510

## Compact

## Extended

## AIS Chassis

## Light Characteristics

Light Source	LED		
Available Colours	Red, Green, White, Yellow, Blue		
SL-C510-5D Typical Maximum Intensity (cd)†	Red - 620, Green - 690, White - 1150, Yellow - 570, Blue - 310		
SL-C510-10D Typical Maximum Intensity (cd)†	Red - 460, Green - 440, White - 650, Yellow - 320, Blue - 200		
Visible Range (NM)	AT @ 0.74: 5-9NM		
Horizontal Output (degrees)	360		
Vertical Divergence (degrees)	5 or >10		
Available Flash Characteristics	Up to 310 IALA recommended (user adjustable)		
Intensity Adjustments	Multiple intensity settings		
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)	33.6 (4 x 8.4 watt)
Charging Regulation	MPPT		

## Power Supply

Battery Type	Gel SLA		
Battery Capacity (Ah)	12	24	24

## 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 / 25.50	660 / 25.98
Width (mm/inches)	234 / 9.05	234 / 9.05	234 / 9.05
Mass (kg/lbs)	9.2 / 20.3	15.2 / 33.5	16.0 / 35.3
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 <sup>2</sup>		
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		
Humidity	MIL-STD-810F method 507.4 (0 – 100%, condensing)		
Temperature Range	-30 to 50°C		

## Compliance

CE	EN61000-6-2:2005, IEC61000-4-2:2008, IEC61000-4-3:2010, IEC61000-6-1:2016		
IALA	Signal colours compliant to IALA E-200-1		
Ingress Protection	IP68		

## Intellectual Property

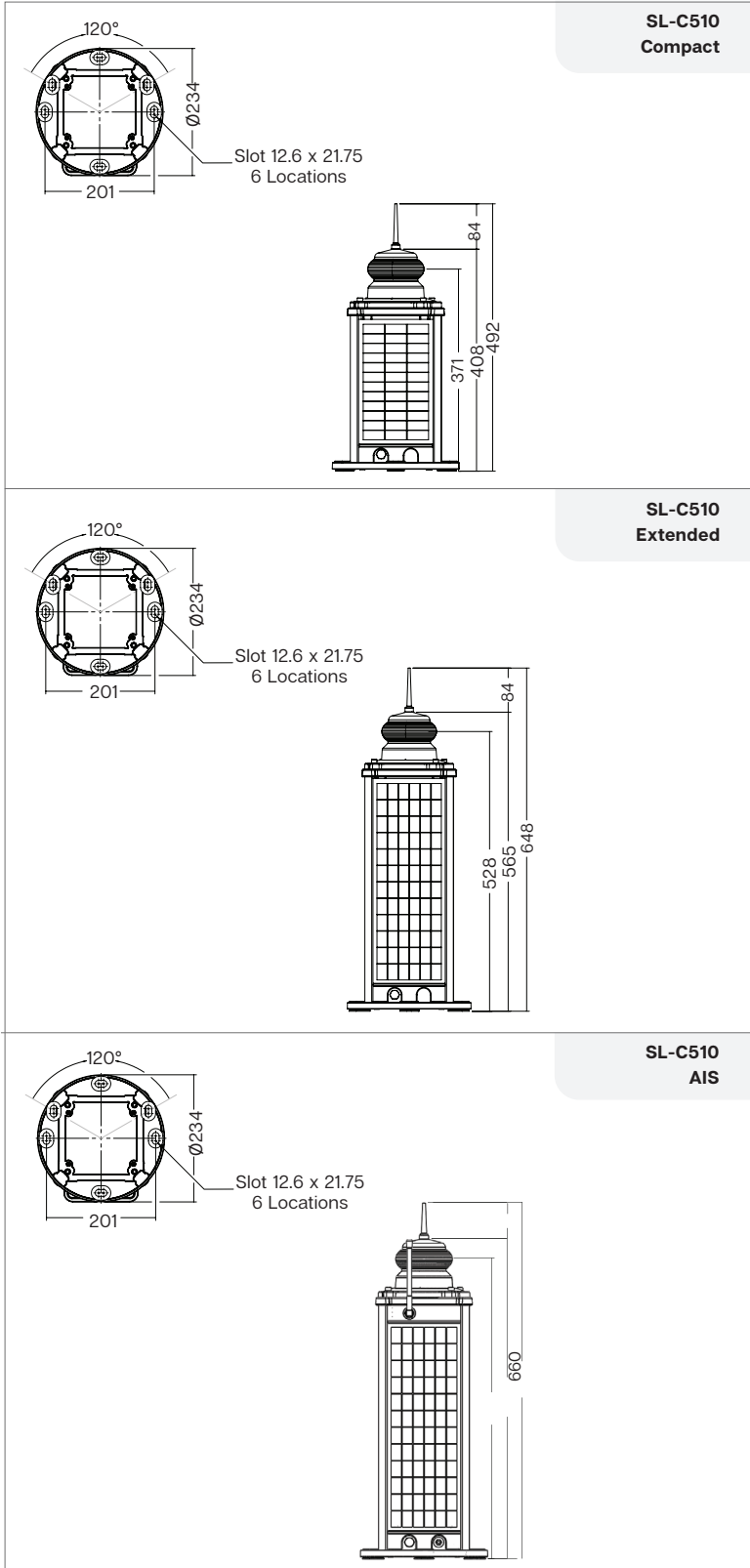
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd		
Warranty *	3 years		
Options Available	<ul style="list-style-type: none"> <li>• IR Programmer</li> <li>• External ON/OFF Switch</li> </ul>	<ul style="list-style-type: none"> <li>• External Battery Charging Port</li> <li>• Satellite Communications</li> </ul>	<ul style="list-style-type: none"> <li>• 5°, 10° Lens</li> <li>• AIS Type 1</li> </ul>



• Specifications subject to change or variation without notice  
 † Intensity setting subject to solar availability

\* Subject to standard terms and conditions  
 ^ Refer to the Sealite website under the warranty section

## Technical Illustrations



## Ordering This Product

SL-C510-[XXD]-[XXXX]-[X]-[XX]

- ↑  
**1**
- ↑  
**2**
- ↑  
**3**
- ↑  
**4**
- ↑  
**5**

**1 Product Number**

**2 Lens Type**

- 05 (5 Degree)
- 10 (10 Degree)

**3 Chassis Configuration**

- S2C0 (Compact)
- S2C2 (Extended)
- S2A2 (AIS)

**4 LED Option:**

- W White
- Y Yellow
- G Green
- R Red
- B Blue
- BY Blue-Yellow

**5 Option Configuration**

- 00 No Options
- 01 Charge Port
- 02 Switch
- 03 Charge Port and Switch
- 04 SAT Only
- 05 SAT with Switch
- 06 SAT with Charge Port
- 07 SAT with Charge Port and Switch
- 08 GSM Only
- 09 GSM with Switch
- 10 GSM with Charge Port
- 11 GSM with Charge Port and Switch
- 14 AIS Type 1 with Charge Port



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