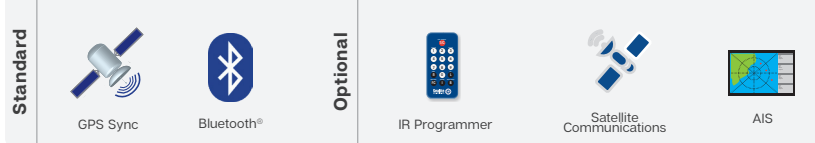


# 5-9NM Solar Marine Lantern

SL-C510



The SL-C510 is a high intensity, completely self-contained 5–9NM solar LED marine lantern. Designed and manufactured to withstand the tough marine environment, providing years of reliable, low-maintenance service.

## Intensity Range

High intensity capabilities of up to 1100 candela in white utilising 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.

## Bluetooth® Connectivity

Integrated Bluetooth® technology using the exclusive SealitePro® app allows for convenient in-field setup, configuration and maintenance from a location up to 50 metres away using your phone or tablet.

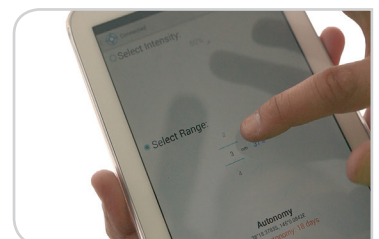
## Satellite Communications

The SL-C510 is available with an optional integrated Iridium® Satellite module enabling two-way monitoring and control using the Iridium® Low Earth Orbit satellite network. Accessible via the Star2M® portal, the global Iridium® network offers genuine, pole-to-pole coverage and is the perfect communication partner for Sealite and our aids to navigation solutions.

## Integrated, Internal AIS

Available as type 1 or type 3 and operating on the international VHF Marine Mobile Band for AtoN operational status and positioning information.

Available in three size configurations the SL-C510 provides an innovative and reliable solution for the 5-9NM range.



## Features

- Enhanced optics
- GPS synchronisation
- OLED screen with touchpad in lens
- Bluetooth® connectivity
- Satellite communications
- AIS Type 1 and Type 3
- Composite moulded polymer base and top
- Environmentally friendly bird spike

## High Performance

- Premium-grade solar modules with individual active 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

## Compliance

- IALA

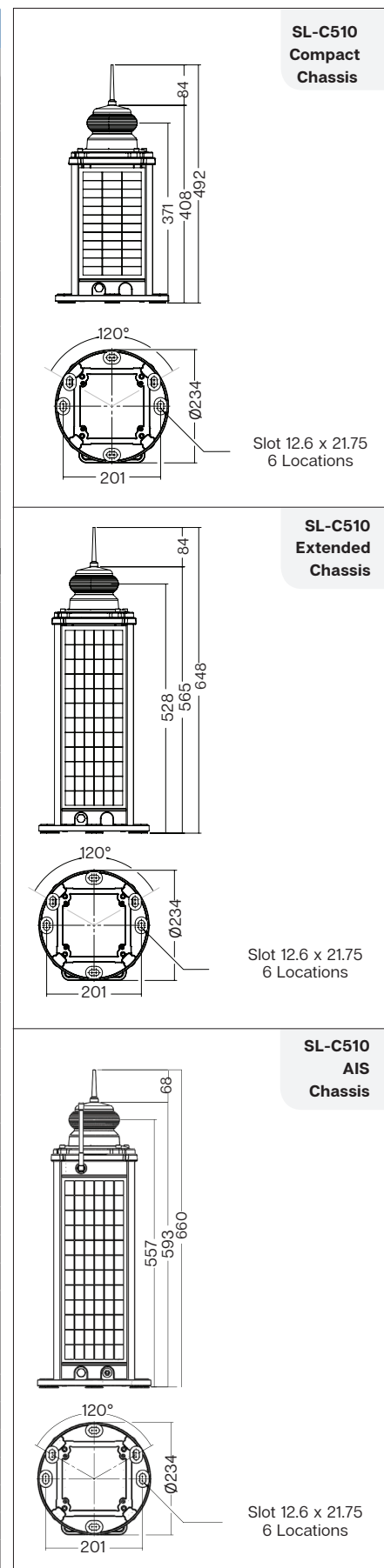
## Optional

- IR programmable
- Satellite communications
- AIS

## Technical Specifications\*

SL-C510	Compact Chassis	Extended Chassis	AIS Chassis
Light Characteristics			
Light Source	LED		
Available Colours	Red, Green, White, Yellow, Blue		
SL-C510-5D Typical Maximum Intensity (cd)*	Red - 624, Green - 694, White - 1155, Yellow - 572, Blue - 313		
SL-C510-10D Typical Maximum Intensity (cd)*	Red - 466, Green - 442, White - 653, Yellow - 326, Blue - 203		
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 <sup>7/8</sup>		
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/m²		
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		
Certifications			
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		
Quality Assurance	ISO 9001:2015		
Ingress Protection	IP68		
Intellectual Property			
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd		
Warranty *	3 years		
Options Available	• IR Programmer • External ON/OFF Switch • External Battery Charging Port • Satellite Communications • 5°, 10° Lens • AIS		

## Technical Illustrations



\* 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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## How to Order SL-C510 Series

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

Product No.:

Lens Type:

05 (5 Degree)  
10 (10 Degree)

Chassis Configuration:

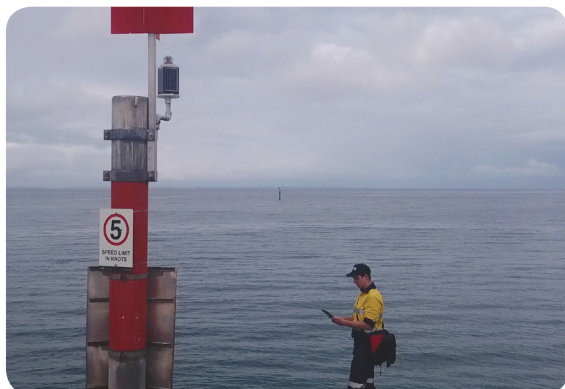
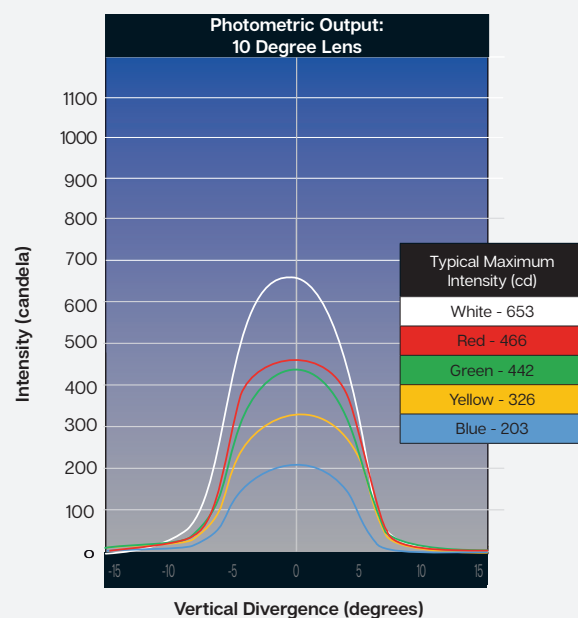
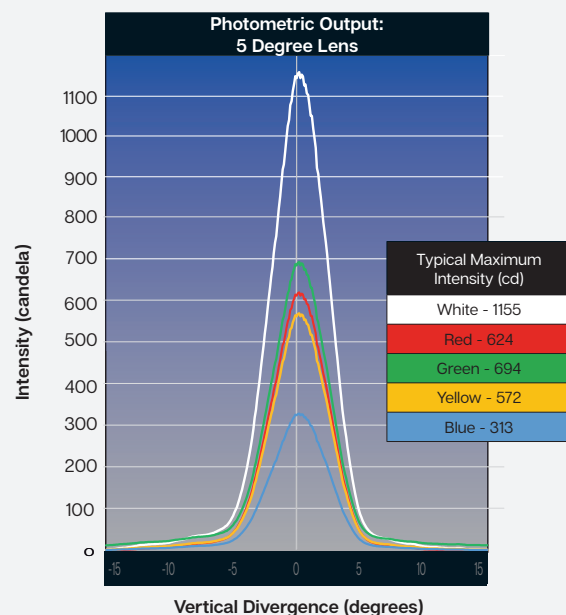
S2C0 (Compact)  
S2C2 (Standard)  
S2A2 (AIS)

LED Option:

W (White)  
Y (Yellow)  
G (Green)  
R (Red)  
B (Blue)

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  
12 AIS Type 1 Only  
13 AIS Type 1 with Switch  
14 AIS Type 1 with Charge Port  
15 AIS Type 1 With Charge Port and Switch  
16 AIS Type 3 Only  
17 AIS Type 3 with Switch  
18 AIS Type 3 with Charge Port  
19 AIS Type 3 With Charge Port and Switch



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^ Refer to the Sealite website under the warranty section

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