

# 1-2NM+ Solar Marine Lantern

SL-15



The equipment complies with requirements of the U.S Coast Guard in 33 CFR part 66 for private aid to navigation and 33 CFR part 88.15 for lights on dredge pipelines

The Sealite SL-15 1-2NM+ compact LED light is exceptional value and incorporates some of the most advanced technology available. In the tradition of Sealite lanterns, the SL-15 is designed to be maintenance-free and have a service life of over 5 years.

The SL-15 can be installed in minutes and requires no operator intervention. The SL-15 has a rotary switch to allow users to change the flash character of the light without the need for special tools or programmers.

During daylight hours the solar module will charge the battery, and the lantern will automatically begin operation at dusk – once the ambient light threshold drops sufficiently.

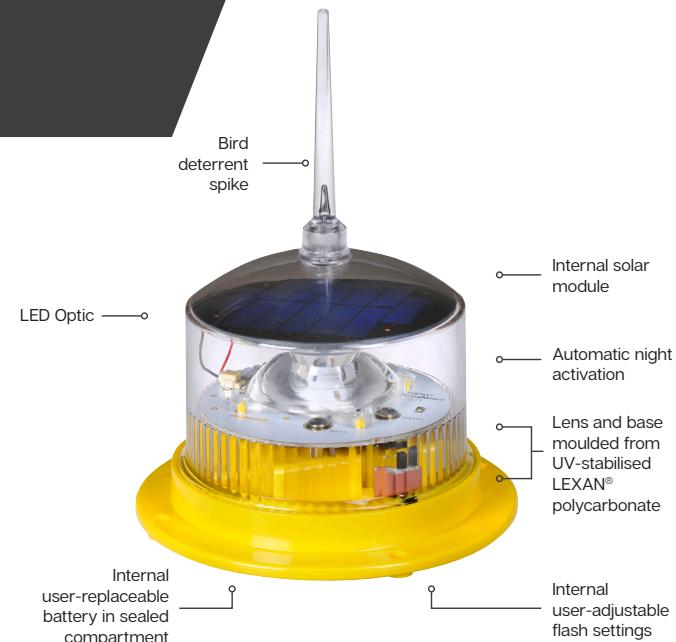
The SL-15 features Sealite's Single LED Optic which boasts exceptional power to light output efficiency. The tough outer polycarbonate lens incorporates an environment-friendly spike – deterring unwelcome bird life.

The internally housed battery is user-replaceable after years of reliable service.

The unit is sealed using advanced UV-sealing, enabling a rugged and complete waterproof seal capable of prolonged and deep immersion (IP68).

## Optional ON/OFF Switch

The SL-15 is also available with an optional ON/OFF switch for temporary installations such as worksites.



## User Advantage

- User-adjustable flash characters
- User-replaceable battery in sealed battery compartment
- Installs in minutes & operates maintenance-free for up to five years

## Reliable

- Completely sealed & self-contained using advanced UV-sealing
- IP68 waterproof
- NiMH battery for long service life & wide temperature range

## Cost Effective

- Solar Powered

## Optional

- Optional ON/OFF switch for temporary installations

## Technical Specifications \*

SL-15	
<b>Light Characteristics</b>	
Light Source	LED
Available Colours	Red, Green, White, Yellow, Blue
Typical Maximum Intensity (cd) <sup>t</sup>	Red - 6.2 Green - 7.6 White - 6.8 Yellow - 5.9
Visible Range (NM)	AT @ 0.74: 1-2+ AT @ 0.85: 1.1-2.3+
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	7
Reflector Type	Single LED Optic
Available Flash Characteristics	16 user-adjustable IALA flash characteristics (other flash patterns available on request)
Intensity Adjustments	32 automatic step-down settings based on power demand of flash code selection
LED Life Expectancy (hours)	>100,000
<b>Electrical Characteristics</b>	
Current Draw (mA)	Refer to Sealite Power Calculator
Circuit Protection	Integrated
Nominal Voltage (V)	3.6
Autonomy (days)	>50 (14 hour darkness, 12.5% duty cycle)
Temperature Range	-40 to 80°C
<b>Solar Characteristics</b>	
Solar Module Type	Monocrystalline
Output (watts)	0.75
<b>Power Supply</b>	
Battery Type	High grade NiMH
Battery Capacity (Ah)	2.4
Nominal Voltage (V)	3.6
<b>Physical Characteristics</b>	
Body Material	LEXAN® Polycarbonate – UV-stabilised
Lens Material	LEXAN® Polycarbonate – UV-stabilised
Lens Diameter (mm/inches)	98 / 3 <sup>7/8</sup>
Lens Design	Single LED Optic
Mounting	4 x 6mm mounting holes
Height (mm/inches)	141 / 5 <sup>1/2</sup>
Width (mm/inches)	136 / 5 <sup>3/8</sup>
Mass (kg/lbs)	0.5 / 1 <sup>1/8</sup>
Product Life Expectancy	Up to 12 years ^
<b>Certifications</b>	
CE	EN61000-6-1:2007, EN61000-6-3:2007
IALA	Signal colours compliant to IALA E-200-1
Quality Assurance	ISO 9001:2015
Waterproof	IP68
<b>Intellectual Property</b>	
Patents	US Pat. No. 6,667,582. AU Pat. No. 778,918
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty *	3 years
Options Available	<ul style="list-style-type: none"> <li>ON/OFF switch</li> <li>Custom flash patterns</li> <li>50mm pole mount adapter plate</li> <li>IR Remote Programmer</li> </ul>

## User-Adjustable IALA Flash Characteristics

FLASH SETTING CODE	Flash Sequence (on, off, on...)
0	STEADY LIGHT (intensity reduced)
1	0.5, 1.0
2	0.5, 3.5
3	1.0, 3.0
4	0.5, 5.5
5	0.3, 0.7
6	0.3, 0.7, 0.3, 0.7, 0.3, 0.7, 0.3, 15.7
7	0.3, 1.7
8	0.3, 2.2
9	0.5, 2.0
A	0.3, 2.7
B	0.5, 2.5
C	0.7, 2.3
D	0.5, 4.5
E	1.0, 4.0
F	Custom Setting

Other flash patterns are available on request



User-replaceable battery

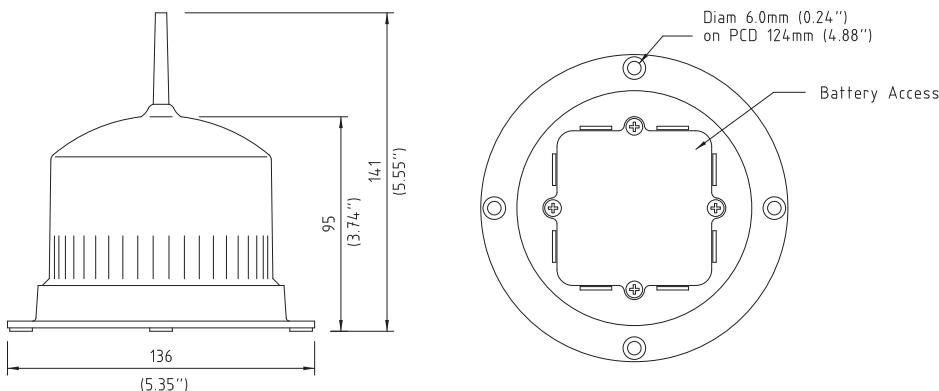


SL-15 with optional ON/OFF switch



Flash characteristic is selected via internal rotary switch located in the battery compartment

## Technical Illustrations



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SL-15\_DATA\_EN\_V3-2



# 2-3NM+ Solar Marine Lantern

SL-60



This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66

The Sealite SL-60 is the world's most popular and versatile 2-3NM+ solar marine light.

The SL-60 can be installed in minutes and requires no operator intervention. The flash characters are easily adjusted onsite by the user, and the lantern has a permanent ON/OFF switch for easy storage.

The SL-60 comes with standard rotary switches for convenient in-field changes of flash characters and intensity selection. In addition, the unit may be provided with an IR programmer for added functionality.

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

## Optional GPS Synchronisation

The SL-60 is available with optional GPS Synchronisation. Two (2) or more lights can be synchronised to flash in unison via an internal GPS module. When lanterns flash in synchronisation they can be clearly distinguished from other navaids and confusing background lighting – ideal for rivers, marina entrances, channel marking and aquaculture.

## Optional 200mm Bolt Pattern Base

The SL-60 is available with optional large 200mm bolt pattern to suit installation requirements.

## Optional Larger Battery Pack

In regions where additional autonomy is required, the SL-60 can be supplied with a larger 8Ah or 16Ah battery pack - this greatly extends the operational autonomy.



Shown with optional 200mm bolt pattern base



## User Advantage

- IR programmable
- 256 IALA flash patterns
- User-replaceable battery in sealed battery compartment
- Multiple intensity settings
- ON/OFF storage switch

## Reliable

- NiMH battery for long service life & wide temperature range
- IP68 waterproof

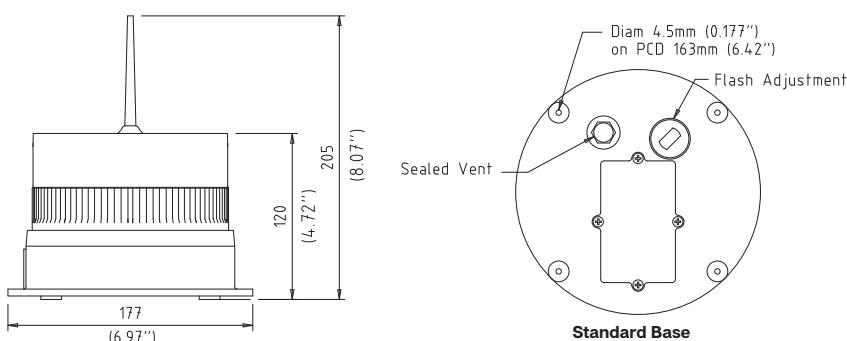
## Optional

- GPS Synchronisation
- 200mm Bolt Pattern Base
- Larger Battery Pack

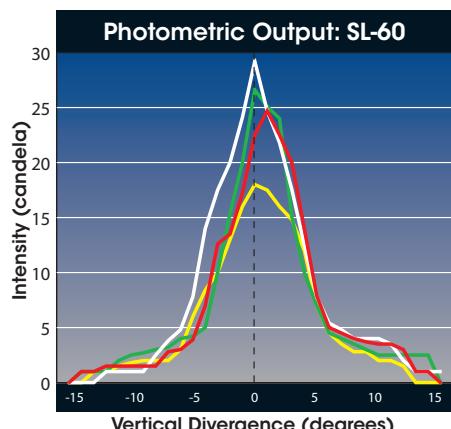
## Technical Specifications \*

SL-60	
<b>Light Characteristics</b>	
Light Source	LED
Available Colours	Red, Green, White, Yellow, Blue
Typical Maximum Intensity (cd)*	Red - 24.7 Green - 26.6 White - 29.2 Yellow - 18.8
Visible Range (nm)	AT @ 0.74: 2-3+ AT @ 0.85: 2.3-3.5+
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	7
Available Flash Characteristics	Up to 256 IALA recommended (user adjustable)
Intensity Adjustments	Adjustable in 25% increments
LED Life Expectancy (hours)	>100,000
<b>Electrical Characteristics</b>	
Current Draw (mA)	Refer to Sealite Power Calculator
Circuit Protection	Integrated
Nominal Voltage (V)	3.6
Autonomy (days)	>20 (14 hour darkness, 12.5% duty cycle)
Temperature Range	-40 to 80°C
<b>Solar Characteristics</b>	
Solar Module Type	Monocrystalline
Output (watts)	1.6
<b>Power Supply</b>	
Battery Type	High grade NiMH
Battery Capacity (Ah)	4
Nominal Voltage (V)	3.6
<b>Physical Characteristics</b>	
Body Material	LEXAN® Polycarbonate – UV-stabilised
Lens Material	LEXAN® Polycarbonate – UV-stabilised
Lens Diameter (mm/inches)	150 / 5 <sup>7/8</sup>
Lens Design	Single LED optic
Mounting	4 x 4.5mm mounting holes
Height (mm/inches)	205 / 8 <sup>1/8</sup>
Width (mm/inches)	177 / 7
Mass (kg/lbs)	0.9 / 2 <sup>1/8</sup> (SL-60LB 1 / 2 <sup>1/4</sup> , SL-60-8AH 1 / 2 <sup>1/4</sup> , SL-60LB-8AH 11 / 2 <sup>1/2</sup> , SL-60LB-16AH 1.5 / 3 <sup>1/3</sup> )
Product Life Expectancy	Up to 12 years
<b>Certifications</b>	
CE	EN61000-6-1:2007, EN61000-6-3:2007
IALA	Signal colours compliant to IALA E-200-1
Quality Assurance	ISO 9001:2015
Waterproof	IP68
<b>Intellectual Property</b>	
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>GPS Synchronisation</li> <li>8Ah battery</li> <li>16Ah battery</li> <li>200mm bolt pattern base (standard for UK versions)</li> <li>50mm pole mount adapter plate</li> </ul>

## Technical Illustrations



## Photometric Output



Typical Maximum Intensity (cd)	
SL-60	
RED	24.7
GREEN	26.6
WHITE	29.2
YELLOW	18.8



User-replaceable battery

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# 2-3NM+ Solar Marine Lantern

SL-70

Optional



This equipment complies with requirements of the U.S. Coast Guard in 33 CFR Part 66 as well as 33 CFR Part 67 for Class 'C' structures

The Sealite SL-70 is exceptional in its unique ability to be able to 'track the sun' and operate reliably in low sunlight conditions. The SL-70 has been proven to operate as a 2-3+ nautical mile compact buoy lantern in various low sunlight environments such as Britain, Canada and Europe.

Made from tough, durable polycarbonate and using the latest high intensity LEDs, the SL-70 lantern boasts dual high-performance solar modules. These solar modules are angled to obtain maximum sunlight capture, allowing the unit to operate reliably in a range of low sunlight environments.

The SL-70 can be installed in minutes and requires no operator intervention. The flash characters are easily adjusted onsite by the user, and the lantern has a permanent ON/OFF switch for easy storage.

The SL-70 comes with standard rotary switches for convenient in-field changes of flash characters and intensity selection. In addition, the unit may be provided with an IR programmer for added functionality. Programmable features include; flash code adjustment, battery diagnostics and lux adjustment.

## Optional GPS Synchronisation

The SL-70 is available with optional GPS Synchronisation. Two (2) or more lights can be synchronised to flash in unison via an internal GPS module. When lanterns flash in synchronisation they can be clearly distinguished from other navaids and confusing background lighting – ideal for rivers, marina entrances, channel marking and aquaculture.

## Optional Light Configuration

In high sunlight regions, the SL-70 intensity settings may be increased to provide a range of >3 nautical miles (colour dependant).

## Optional Larger Battery Pack

In regions where additional autonomy is required, the SL-70 can be supplied with a larger 16Ah battery pack - this greatly extends the operational autonomy.



### Cost Effective

- Solar Powered
- No running costs
- Low ongoing maintenance costs

### High Performance

- Dusk-to-dawn or on demand operation

### Reliable

- No bulbs blown – ever
- Latest LED technology
- No Moving parts

### Easy Install

- No trenching of cables
- No mains power

### Optional Add Ons

- Infrared Output
- Radio Control
- Mounting Solutions

## Technical Specifications.\*

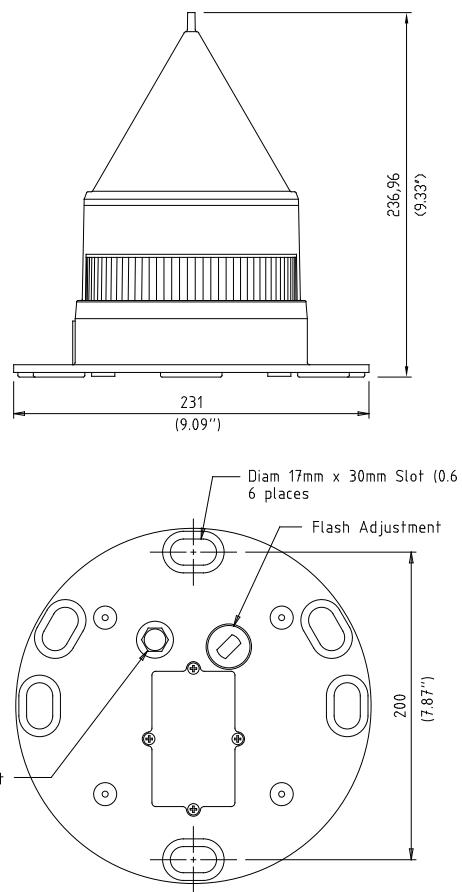
SL-70	
<b>Light Characteristics</b>	
Light Source	LED
Available Colours	Red, Green, White, Yellow, Blue
Typical Maximum Intensity (cd)†	Red - 24.7 Green - 26.6 White - 29.2 Yellow - 18.8
Visible Range (NM)	AT @ 0.74: 2-3+ AT @ 0.85: 2.3-3.5+
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	7
Available Flash Characteristics	Up to 256 IALA recommended (user adjustable)
Intensity Adjustments	Multiple intensity settings
LED Life Expectancy (hours)	>100,000
<b>Electrical Characteristics</b>	
Current Draw (mA)	Refer to Sealite Power Calculator
Circuit Protection	Integrated
Nominal Voltage (V)	3.6
Autonomy (days)	>30 (14 hour darkness, 12.5% duty cycle)
Temperature Range	-40 to 80°C
<b>Solar Characteristics</b>	
Solar Module Type	Monocrystalline
Output (watts)	3.5 (2 x 1.75watt)
<b>Power Supply</b>	
Battery Type	High grade NiMH
Battery Capacity (Ah)	8
Nominal Voltage (V)	3.6
<b>Physical Characteristics</b>	
Body Material	LEXAN® Polycarbonate – UV-stabilised
Lens Material	LEXAN® Polycarbonate – UV-stabilised
Lens Diameter (mm/inches)	150 / 5 <sup>7/8</sup>
Lens Design	Single LED Optic
Mounting	200mm bolt pattern
Height (mm/inches)	240 / 9 <sup>1/2</sup>
Width (mm/inches)	231 / 7 <sup>1/8</sup>
Mass (kg/lbs)	1.4 / 3 <sup>1/8</sup> (SL-70-16AH 1.6 / 3 <sup>1/2</sup> )
Product Life Expectancy	Up to 12 years ^
<b>Certifications</b>	
CE	EN61000-6-1:2007, IEC61000-6-1:2005, EN61000-6-3:2007, IEC61000-6-3:2006
IALA	Signal colours compliant to IALA E-200-1
Quality Assurance	ISO 9001:2015
Waterproof	IP68
<b>Intellectual Property</b>	
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd
<b>Warranty *</b>	
Options Available	3 years
• IR Programmer • GPS Synchronisation • 16Ah battery • 50mm pole mount adapter plate	



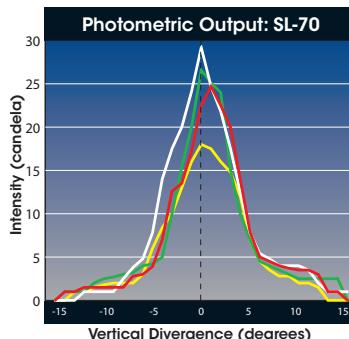
User-replaceable battery

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## Technical Illustrations



## Photometric Output



## Typical Maximum Intensity (cd)

SL-70
RED
GREEN
WHITE
YELLOW

24.7

26.6

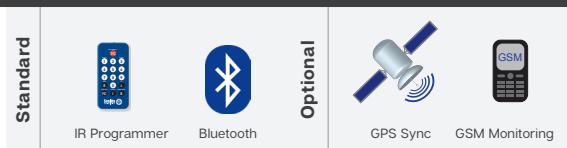
29.2

18.8



# 3-5NM Solar Marine Lantern

SL-75



The SL-75 is a next-generation solar marine lantern with up to 5NM visible range, made from tough, durable polycarbonate and utilising the latest in technology.

## Bluetooth® for programming and maintenance

Completely programmable via the new Bluetooth® connected SealitePro™ mobile application, the SL-75 can be configured and monitored from a distance up to 50 meters. An inbuilt solar calculator confirms the lanterns ability to operate at the set location, ensuring optimal operating performance.

## Dual High Performance Solar Modules

The SL-75 lantern boasts dual high-performance solar modules which are tilted to obtain maximum sunlight capture, allowing the unit to operate reliably in a range of low sunlight environments. The tilted solar modules are also less susceptible to fouling or snow cover.

## Improve productivity and reduce risk to personnel

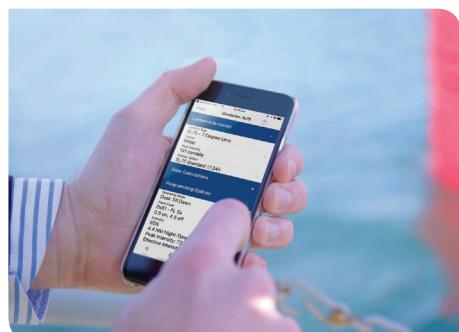
Time savings for maintenance work are maximised as diagnostics can be interrogated via the mobile device. Risk to maintenance personnel is greatly reduced as many maintenance tasks can be performed from the safety of a vessel or without the need to climb structures.

## Optional GPS Synchronisation

The SL-75 is available with optional GPS Synchronisation. Two (2) or more lights can be synchronised to flash in unison via an internal GPS module.

## Optional GSM Monitoring & Control System

The SL-75 may also be fitted with GSM Cell-Phone Monitoring and Control – enabling users to access real-time diagnostic data and change lantern settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated phone numbers. Users can also have alarms and reports sent to designated email addresses.



SealitePro™ app

## Advantage

- Up to 310 Flash characters including 256 IALA Flash characters and customer definable character
- Up to 5NM visible range

## Reliable

- High Capacity NiMH battery for long service life & wide temperature range
- Reliable year-round operation in low sunlight conditions
- Bluetooth® for programming and maintenance via SealitePro™ app

## Optional Add Ons

- GPS Synchronisation
- GSM Cell-Phone Monitoring

## Technical Specifications <sup>\*\*</sup>

### SL-75

#### Light Characteristics

Light Source	High efficiency LED
Available Colours	Red, Green, White, Yellow, Blue
SL-75-7D Typical Maximum Intensity (cd)	Red - 98 Green - 104 White - 131 Yellow - 65
SL-75-5D Typical Maximum Intensity (cd)	Red - 143 Green - 109 White - 183 Yellow - 87
Visible Range (NM/km)	3.5 / 5.5 - 9
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	7.5 (standard) / 5 (optional)
Available Flash Characteristics	310 plus custom character
Intensity Adjustments	Multiple intensity settings
LED Life Expectancy (hours)	>100,000

#### Electrical Characteristics

Circuit Protection	Integrated
Nominal Voltage (VDC)	3.6
Autonomy (days)	>30 (14 hour darkness, 12.5% duty cycle)
Temperature Range	-40 to 80°C

#### Solar Characteristics

Solar Module Type	Monocrystalline
Output (watts)	5 (2 x 2.5watt)

#### Power Supply

Battery Type	High grade NiMH
Battery Capacity (Ah) - Standard	17.2
Battery Capacity (Ah) - Large	21.5
Nominal Voltage (V)	3.6

#### Physical Characteristics

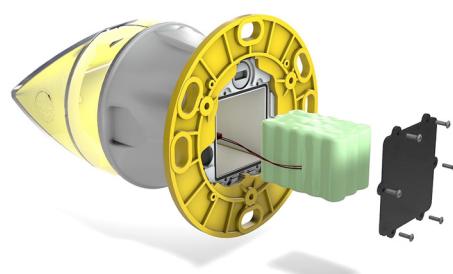
Body Material	LEXAN® Polycarbonate – UV stabilized
Lens Material	LEXAN® Polycarbonate – UV stabilized
Lens Design	Single LED Optic
Mounting	3 types: 3 & 4 hole 200mm bolt pattern, 3 hole 150mm bolt pattern, 4 hole 162mm bolt pattern
Height (mm/inches)	314 / 12 <sup>3/8</sup>
Width (mm/inches)	231 / 9 <sup>1/8</sup>
Mass (lbs/kg)	5.5 / 2.5
Product Life Expectancy	Up to 12 years

#### Certifications

EMC	FCC Part 15 Rules & ANSI C63.4: 2014. EN61000-6-2: 2005 (IEC 61000-6-2:2005) Part 6-2 Immunity. EN 61000-6-4: 2007 (IEC 61000-6-4: 2006) Electromagnetic compatibility (EMC) - Part 6-4 Emission. IEC 61000-4-2: 2008 Ed 2 Part 4-2 Electrostatic discharge immunity test. IEC 61000-4-3: 2006 Ed 3 Part 4-3. Radiated, radio-frequency, electromagnetic field immunity. Signal colours compliant to IALA E-200-1
IALA	
Quality Assurance	ISO9001:2015
Waterproof	IP68

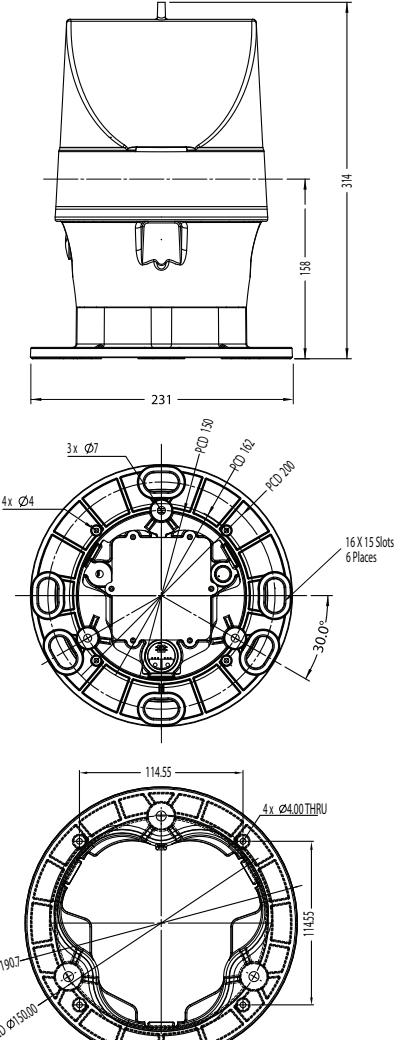
#### Intellectual Property

Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty <sup>*</sup>	3 years
Options Available	<ul style="list-style-type: none"> <li>GPS Synchronisation</li> <li>Bird Deterrent</li> <li>SL-75-5D (5 Degree divergence model)</li> <li>GSM Monitoring &amp; Control System</li> <li>Charging Port</li> </ul>

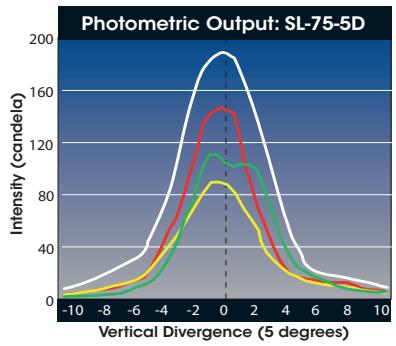
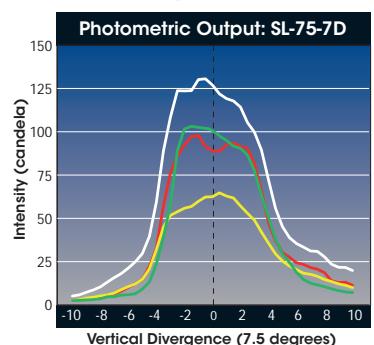


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## Technical Illustrations



## Photometric Output



# 3-5NM+ Solar Self Contained Marine Lantern



SL-C310 Range with SATCOM



The SL-C310 is a robust, completely self-contained range of 3-5NM+ Solar LED marine lanterns. The range is available in three chassis sizes: compact, standard and extended with satellite connectivity offered as an option.



## Intensity Range

The SL-C310 lantern range utilise leading technology LEDs for a visible range of 3-5NM+.



## 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.



## Satellite Communications

The SL-C310 range 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.

Available in three chassis sizes to accommodate larger battery capacity and additional solar charging capability. The SL-C310 range provides an innovative and reliable solution for the 3-5NM+ range.

## Features

- Enhanced optics
- GPS synchronisation
- Satellite communications
- 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

## Technical Specifications\*

SL-C310	Compact	Standard	Extended		
<b>Light Characteristics</b>					
Light Source		LED			
Available Colours		Red, Green, White, Yellow, Blue			
Typical Maximum Intensity		Red - 121, Green - 88, White - 156, Yellow - 95			
Visible Range (NM)		AT @ 0.74: 3-5			
Horizontal Output (degrees)		360			
Vertical Divergence (degrees)		>7			
Available Flash Characteristics	Up to 310 IALA recommended (user adjustable)				
Intensity Adjustments	Multiple intensity settings				
LED Life Expectancy (hours)	>100,000				
<b>Electrical Characteristics</b>					
Current Draw (mA)	Refer to Sealite Solar Calculator				
Circuit Protection	Integrated				
Nominal Voltage (V)	12				
Autonomy (nights)	>60 (14 hour darkness, 12.5% duty cycle)	>110 (14 hour darkness, 12.5% duty cycle)			
<b>Solar Characteristics</b>					
Solar Module Type	Monocrystalline				
Output (watts)	20 (4 x 5watt)	28 (4 x 7watt)	33.6 (4 x 8.4watt)		
Charging Regulation	MPPT				
<b>Power Supply</b>					
Battery Type	SLA (Sealed Lead Acid)				
Battery Capacity (Ah)	12	24			
<b>Physical Characteristics</b>					
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)	99 / 3 7/8				
Lens Design	Single LED Optic				
Mounting	3 and 4 hole 200mm bolt pattern				
Height - Base Model (mm/inches)	484 / 19 1/16	581 / 22 7/16	640 / 25 13/64		
Height - SATCOM Model (mm/inches)	504 / 19 27/32	601 / 23 21/32	660 / 25 63/64		
Width (mm/inches)	234 / 9 1/4	234 / 9 1/4	234 / 9 1/4		
Mass (kg/lbs)	9.1 / 20	13.9 / 30 1/2	14.6 / 32 1/4		
Service Life	15 years ^				
<b>Environmental Standards</b>					
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				
<b>Compliance</b>					
CE	EN61000-6-2:2005, IEC61000-4-2:2008, IEC61000-4-3:2010, IEC61000-6-1:2016				
IALA	Signal colors compliant to IALA-E-200-1				
Quality Assurance	ISO 9001:2015				
Ingress Protection	IP68				
<b>Intellectual Property</b>					
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd				
Warranty *	3 years				
Options Available	<ul style="list-style-type: none"> <li>• 50mm pole mount adapterplate</li> <li>• Satellite Communications</li> <li>• GSM Cell-Phone Monitoring</li> <li>• External Battery Charging Port</li> <li>• External ON/OFF Switch</li> </ul>				

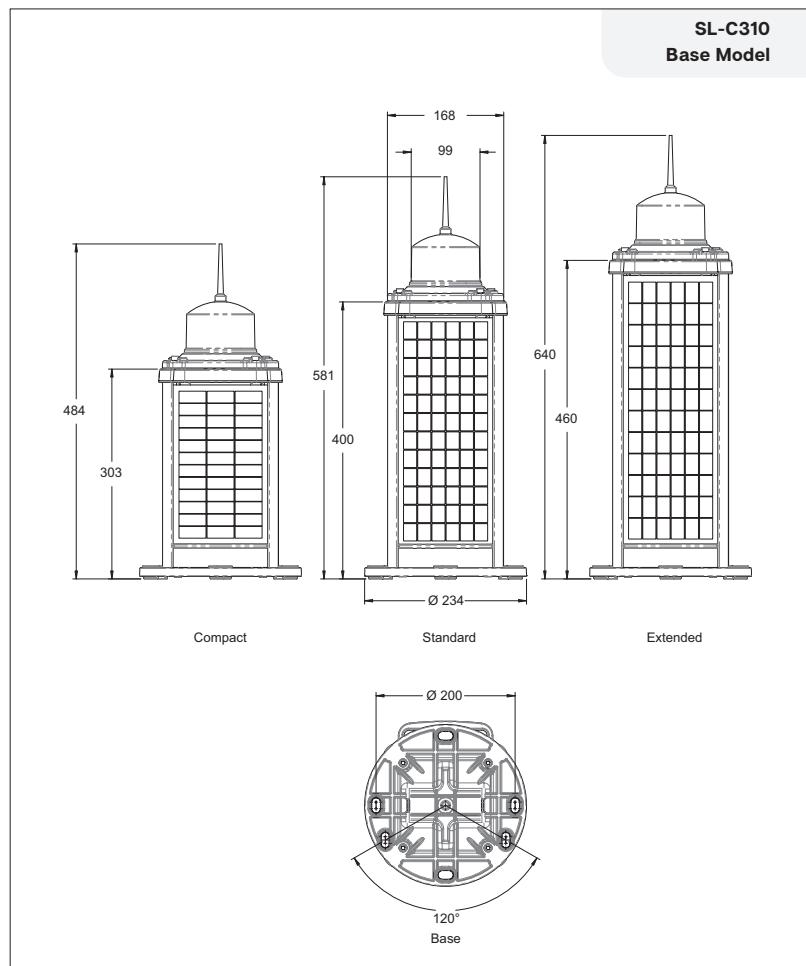


- \* Specifications subject to change or variation without notice
- \* Subject to standard terms and conditions
- † Intensity setting subject to solar availability
- ^ Refer to the Sealite website under the warranty section

## How to Order SL-C310 Series

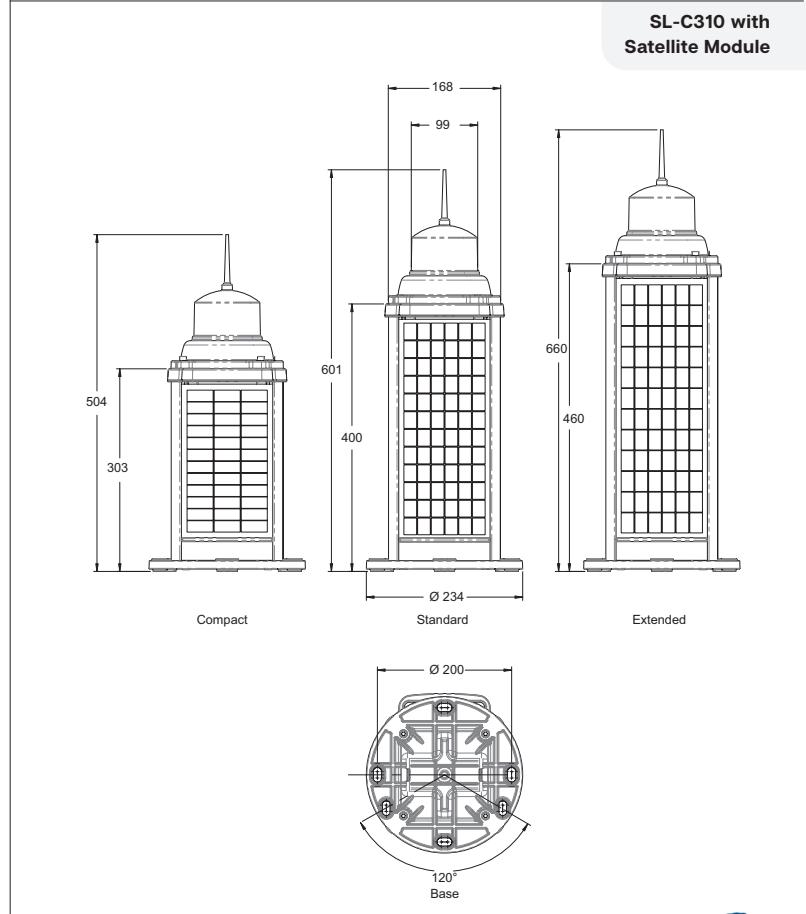
SL-C310-07D-[XXXX]-[X]-[XX]	
Product No.:	
Lens Type: 07D (7 Degree)	
Chassis Configuration:	
S2C0 (Compact) S2C1 (Standard) S2C2 (Extended)	
LED Option:	
W	(White)
Y	(Yellow)
G	(Green)
R	(Red)
B	(Blue)
Option Configuration:	
00	No Options
01	Switch
02	Charge Port
03	Charge Port and Switch
04	SAT Only
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

## Technical Illustrations



## Star2M - Monitoring option available

GPS positioning via internet mapping system



• 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





All Sealite products are manufactured to exacting standards under strict quality control procedures. Sealite's commitment to research and development, investing in modern equipment and advanced manufacturing procedures has made us an industry leader. By choosing Sealite you can rest assured you have chosen the very best.

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- Precision Construction**
- Worldwide Distribution Team**
- Total Quality Management**
- Agile Manufacturing**
- ISO9001:2015**
- Product Innovation**
- Rapid Turnaround**



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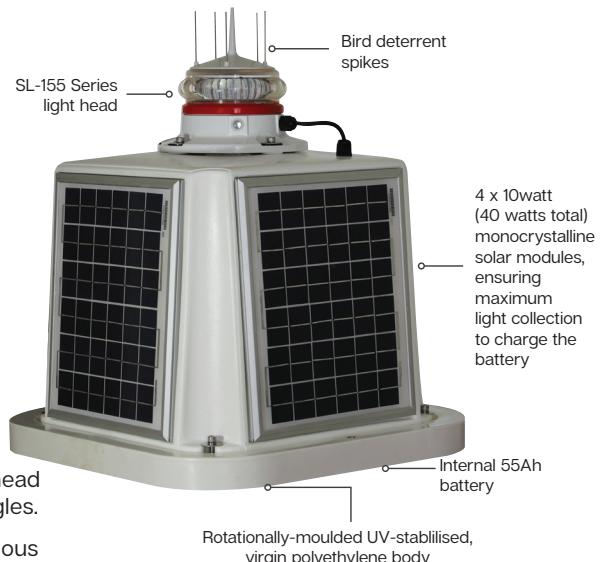
[www.sealite.com](http://www.sealite.com)  
[info@sealite.com](mailto:info@sealite.com)

# 5–12NM Solar Marine Lantern

SL-C500

Standard	Optional
	
IR Programmer	PC Configuration Tool
	
GPS Sync	GSM Monitoring
	
RS232/422/485 Port	AIS
	Hard-wire Sync

The SL-C500 is a completely self-contained 5–12NM Solar LED Marine Lantern designed for a range of low-maintenance applications.



The light boasts a large internal battery compartment, a SL-155 Series LED light-head and 4 premium-grade 10 watt solar modules mounted to collect sunlight at all angles.

The SL-C500 is moulded from UV-stabilised, virgin polyethylene, providing enormous impact and weather resistance, in addition to high visibility IALA colours.

The user-friendly, 2-piece design allows the lantern to be opened for convenient battery inspection or replacement whilst the base remains fixed to the supporting structure.

## Advanced PC or IR Programming

Sealite's convenient PC Configuration Tool or IR programmer allows a host of features to be user set including;

- Multiple intensity settings
- 310 flash settings including custom character
- Automatic effective intensity adjustment
- Adjustable on/off lux levels
- Low battery threshold
- GPS synchronisation offset
- Alarm conditions

## Optional GPS Synchronisation

The SL-C500 may be fitted with an optional GPS module for flash synchronisation.

## Optional GSM Monitoring & Control System

The SL-C500 lanterns may also be fitted with a GSM Cell-Phone Monitoring and Control System – enabling users to access real-time diagnostics data and change lantern settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.

## Optional Type 1 or Type 3 AIS

The SL-C500 lanterns are available with a class-leading integrated, low-powered Type 1 or Type 3 AIS.

When fitted, the AIS is encapsulated within the body of the SL-155 to maintain the weatherproof integrity.

Note: With integrated AIS, the lanterns visible range may be reduced. Please check the Sealite Solar Calculator for performance characteristics.

## Reliable

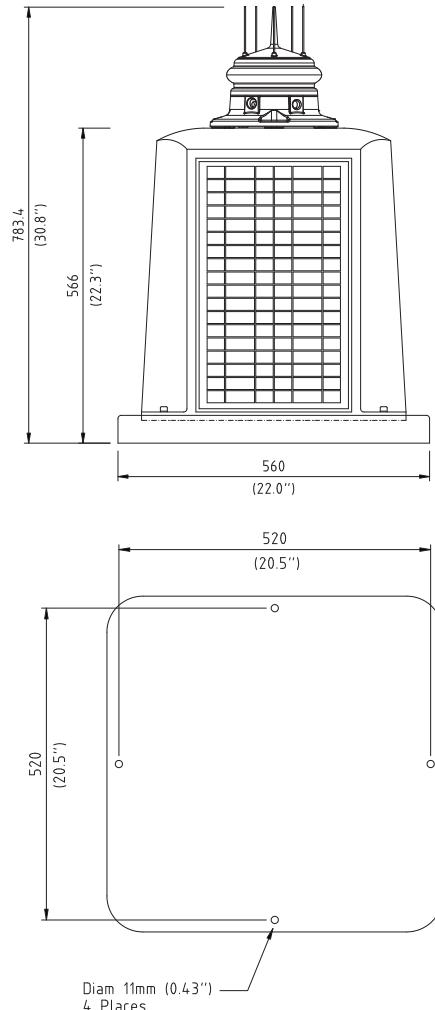
- Up to 12NM visible range
- Multiple lens divergences for fixed or floating applications
- Complete unit – ready for immediate installation
- Impact & weather resistant polyethylene
- PC or IR Programmer for setup, diagnostic & testing



## Technical Specifications:<sup>\*</sup>

SL-C500	
<b>Light Characteristics</b>	
Light Source	SL-155-2.5D/5D/10D lantern
Available Colours	Red, Green, White, Yellow
Typical Maximum Intensity (cd) <sup>†</sup>	Refer to Typical Maximum Intensity Table for SL-155 Series Lanterns
Visible Range (NM)	AT @ 0.74: 5–12 AT @ 0.85: 6.3–17.4
Vertical Divergence (degrees)	2.5, 5 or 10
Horizontal Output (degrees)	360
Available Flash Characteristics	Up to 310 including 256 IALA recommended, & 1 custom
Intensity Adjustments	User adjustable
LED Life Expectancy (hours)	>100,000
<b>Electrical Characteristics</b>	
Current Draw (mA)	Refer to Sealite Power Calculator
Power (W)	Refer to Sealite Power Calculator
Circuit Protection	Polarity protected
Nominal Voltage (VDC)	12
Autonomy (days)	>20 (14 hour darkness, 12.5% duty cycle)
Temperature Range	-40 to 80°C
<b>Solar Characteristics</b>	
Solar Module Type	Monocrystalline
Output (watts)	40 (4 x 10watt)
Charging Regulation	Microprocessor controlled
<b>Power Supply</b>	
Battery Type	Gel SLA
Battery Capacity (Ah)	55
Nominal Voltage (V)	12
<b>Physical Characteristics</b>	
Body Material	Rotationally-moulded UV-stabilised virgin polyethylene
Lens Material	UV-stabilised acrylic
Lens Diameter (mm/inches)	From 171 / 6 3/4
Lens Design	Multi LED Optic
Mounting	4 x 11mm mounting holes
Height (mm/inches)	From 675 / 26 1/2
Width (mm/inches)	560 / 22
Mass (kg/lbs)	From 23 / 50.7
Product Life Expectancy	Up to 12 years
<b>Certifications</b>	
CE	EN61000-6-3:1997, EN61000-6-1:1997
IALA	Signal colours compliant to IALA E-200-1
Quality Assurance	ISO9001:2015
Waterproof	IP68 light-head
<b>Intellectual Property</b>	
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd
<b>Warranty*</b>	
3-year warranty	
<b>Options Available</b>	
<ul style="list-style-type: none"> <li>SL-125 Series Lantern</li> <li>200mm bolt pattern mounting plate</li> <li>GPS Synchronisation</li> <li>AIS Remote Monitoring</li> <li>GSM Monitoring &amp; Control System</li> <li>RS232/422/485 Port</li> <li>General purpose inputs (2) &amp; outputs (2)</li> </ul>	

## Technical Illustration



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# 5-9NM Solar Marine Lantern

SL-C510

iridium®  
connected

Standard	GPS Sync	Bluetooth®	Optional	IR Programmer	Satellite Communications	AIS

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

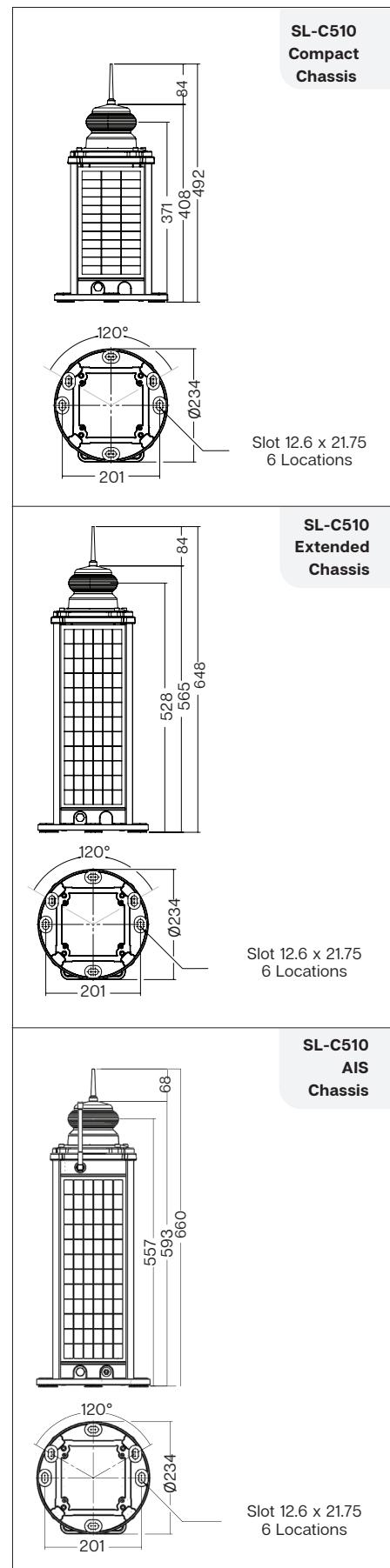
## Optional

- IR programmable
- Satellite communications
- AIS

## Technical Specifications\*

SL-C510	Compact Chassis	Extended Chassis	AIS Chassis
<b>Light Characteristics</b>			
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		
<b>Electrical Characteristics</b>			
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)		
<b>Solar Characteristics</b>			
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		
<b>Power Supply</b>			
Battery Type	Gel SLA		
Battery Capacity (Ah)	12	24	24
<b>Physical Characteristics</b>			
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</sup> / <sub>8</sub>		
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 ^		
<b>Environmental Standards</b>			
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		
<b>Certifications</b>			
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		
<b>Intellectual Property</b>			
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> <li>• External Battery Charging Port</li> <li>• Satellite Communications</li> <li>• 5°, 10° Lens</li> <li>• AIS</li> </ul>		

## Technical Illustrations



**CE** • Specifications subject to change or variation without notice  
\* Subject to standard terms and conditions  
<sup>†</sup> Intensity setting subject to solar availability  
<sup>^</sup> Refer to the Sealite website under the warranty section



## 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 (Extended)
- S2A2 (AIS)

**LED Option:** \_\_\_\_\_

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

**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
- 18 AIS Type 3 with Charge Port

## Typical Maximum Intensity (cd)

5 Degree Lens	
Typical Maximum Intensity (cd)	
White	1150
Red	620
Green	690
Yellow	570
Blue	310

10 Degree Lens	
Typical Maximum Intensity (cd)	
White	650
Red	460
Green	440
Yellow	320
Blue	200



- 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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- ✓ Rapid Turnaround



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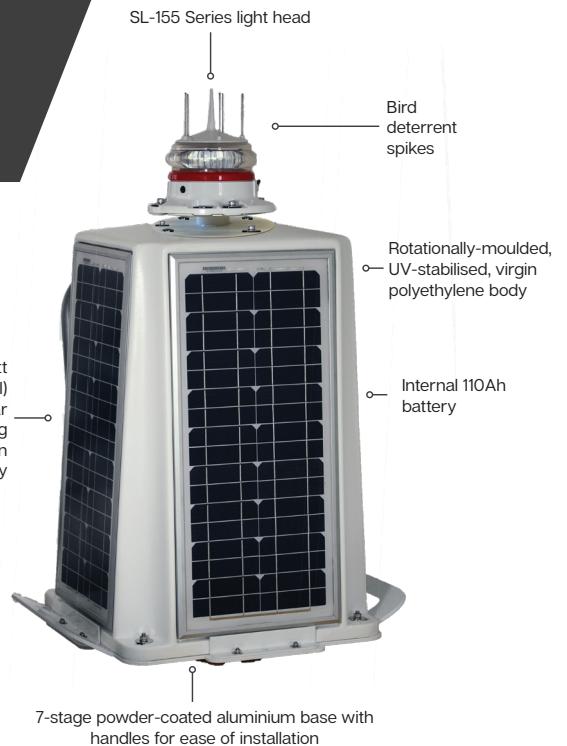
[www.sealite.com](http://www.sealite.com)  
info@sealite.com

# 6-12NM Solar Marine Lantern

SL-C600

Standard	IR Programmer	PC Configuration Tool	Optional
			 GPS Sync  GSM Monitoring  RS232/422/485 Port  AIS  Hard-wire Sync

4 x 20watt  
(80watts total)  
monocrystalline solar  
modules, ensuring  
maximum light collection  
to charge the battery



The SL-C600, one of the world's largest self-contained LED lanterns, is a 6-12NM Solar LED Marine Lantern designed for a range of low-maintenance applications.

The light boasts a large internal battery compartment, a SL-155 light-head and 4 premium-grade 20 watt solar modules mounted to collect sunlight at all angles.

The SL-C600 is moulded from UV-stabilised, virgin polyethylene, providing enormous impact and weather resistance, in addition to high visibility IALA colours.

The user-friendly, 2-piece design allows the lantern to be opened for convenient battery inspection or replacement whilst the base remains fixed to the supporting structure.

## Advanced PC or IR Programming

Sealite's convenient PC Configuration Tool or IR programmer allows a host of features to be user set including;

- Multiple intensity settings
- 310 flash settings including custom character
- Automatic effective intensity adjustment
- Adjustable on/off lux levels
- Low battery threshold
- GPS synchronisation offset
- Alarm conditions

## Optional GPS Synchronisation

The SL-C600 may be fitted with an optional GPS module for flash synchronisation to be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.



## Optional GSM Monitoring & Control System

The SL-C600 lanterns may also be fitted with a GSM Cell-Phone Monitoring and Control System – enabling users to access real-time diagnostics data and change lantern settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.

## Optional Type 1 or Type 3 AIS

The SL-C600 lanterns are available with a class-leading integrated, low-powered Type 1 or Type 3 AIS. When fitted, the AIS is encapsulated within the body of the SL-155 to maintain the weatherproof integrity.



## The Sealite Advantage

- Up to 12NM visible range
- Multiple lens divergences for fixed or floating applications
- Complete unit – ready for immediate installation
- Impact & weather resistant polyethylene
- Handles on the base for ease of installation
- PC or IR Programmer for setup, diagnostic & testing

## Technical Specifications .\*

### SL-C600

#### Light Characteristics

Light Source	SL-155-2.5D/5D/10D lantern
Available Colours	Red, Green, White, Yellow
Typical Maximum Intensity (cd)	Refer to Typical Maximum Intensity Table for SL-155 Series Lanterns

Visible Range (NM)	AT @ 0.74: 6–12 AT @ 0.85: 7.8–17.4
--------------------	--

Horizontal Output (degrees)	0° – 360°
-----------------------------	-----------

Vertical Divergence (degrees)	2.5°, 5° or 10°
-------------------------------	-----------------

Available Flash Characteristics	Up to 310 including 256 IALA recommended, & 1 custom
---------------------------------	--

Intensity Adjustments	User adjustable
-----------------------	-----------------

LED Life Expectancy (hours)	>100,000
-----------------------------	----------

#### Electrical Characteristics

Current Draw (mA)	Refer to Sealite Power Calculator
-------------------	-----------------------------------

Power (W)	Refer to Sealite Power Calculator
-----------	-----------------------------------

Circuit Protection	Polarity protected
--------------------	--------------------

Nominal Voltage (VDC)	12
-----------------------	----

Autonomy (days)	>20 (14 hour darkness, 12.5% duty cycle)
-----------------	--

Temperature Range	-40 to 80°C
-------------------	-------------

#### Solar Characteristics

Solar Module Type	Monocrystalline
-------------------	-----------------

Output (watts)	80 (4 x 20watt)
----------------	-----------------

Charging Regulation	Microprocessor controlled
---------------------	---------------------------

#### Power Supply

Battery Type	Gel SLA
--------------	---------

Battery Capacity (Ah)	110
-----------------------	-----

Nominal Voltage (V)	12
---------------------	----

#### Physical Characteristics

Body Material	Rotationally-moulded UV-stabilised virgin polyethylene
---------------	--

Lens Material	UV-stabilised acrylic
---------------	-----------------------

Lens Diameter (mm/inches)	From 171 / 6 3/4
---------------------------	------------------

Lens Design	Multiple LED optic
-------------	--------------------

Mounting	4 x 11mm mounting holes
----------	-------------------------

Height (mm/inches)	From 813/ 32
--------------------	--------------

Width (mm/inches)	665 / 26 1/4
-------------------	--------------

Mass (kg/lbs)	From 50 / 110
---------------	---------------

Product Life Expectancy	Up to 12 years ^
-------------------------	------------------

#### Certifications

CE	EN61000-6-3:1997. EN61000-6-1:1997
----	------------------------------------

IALA	Signal colours compliant to IALA E-200-1
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Quality Assurance	ISO 9001:2015
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Waterproof	IP68 light-head
------------	-----------------

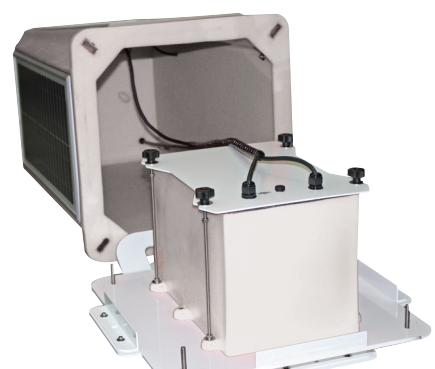
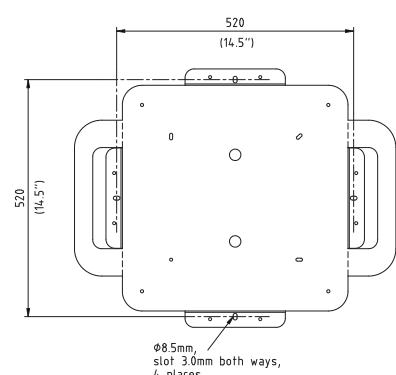
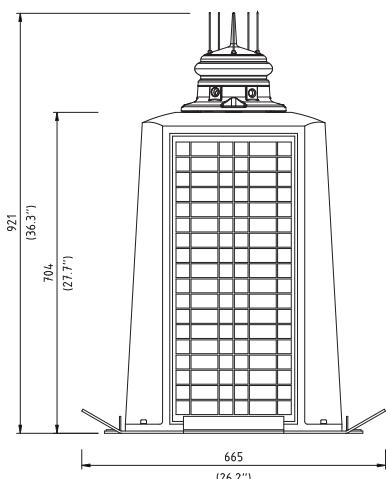
#### Intellectual Property

Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd
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Warranty *	3 years
------------	---------

Options Available	<ul style="list-style-type: none"> <li>SL-155 Series Lantern</li> <li>200mm bolt pattern mounting plate</li> <li>GPS Synchronisation</li> <li>AIS Remote Monitoring</li> <li>GSM Monitoring &amp; Control System</li> <li>RS232/422/485 Port</li> <li>General purpose inputs (1) &amp; outputs (1)</li> <li>Lantern spacer for elevated height</li> </ul>
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## Technical Illustration



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