

# 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

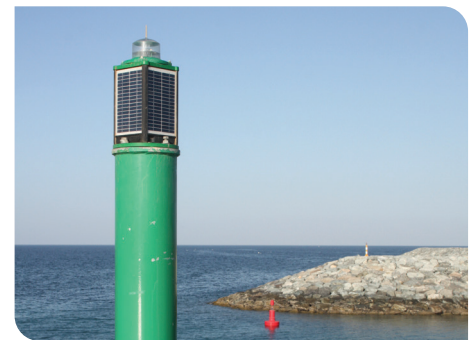
Designed with next generation solar technology including individual active MPPT (maximum power point tracking), maximising the power extracted from the solar panels for improved performance and efficiency.

## 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 7/8	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 IALAE-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:**

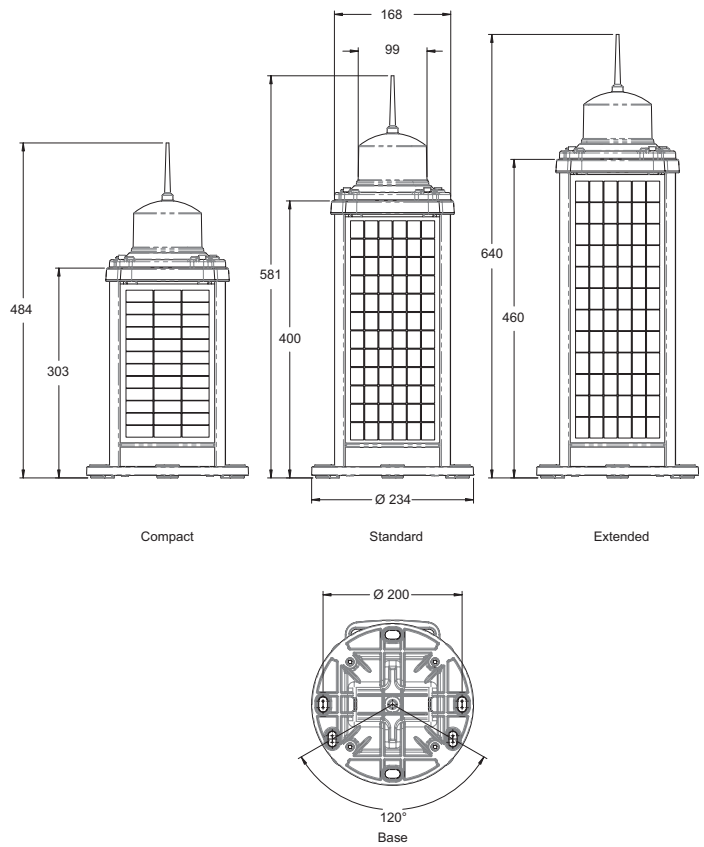
W (White)  
Y (Yellow)  
G (Green)  
R (Red)  
B (Blue)

**Option Configuration:**

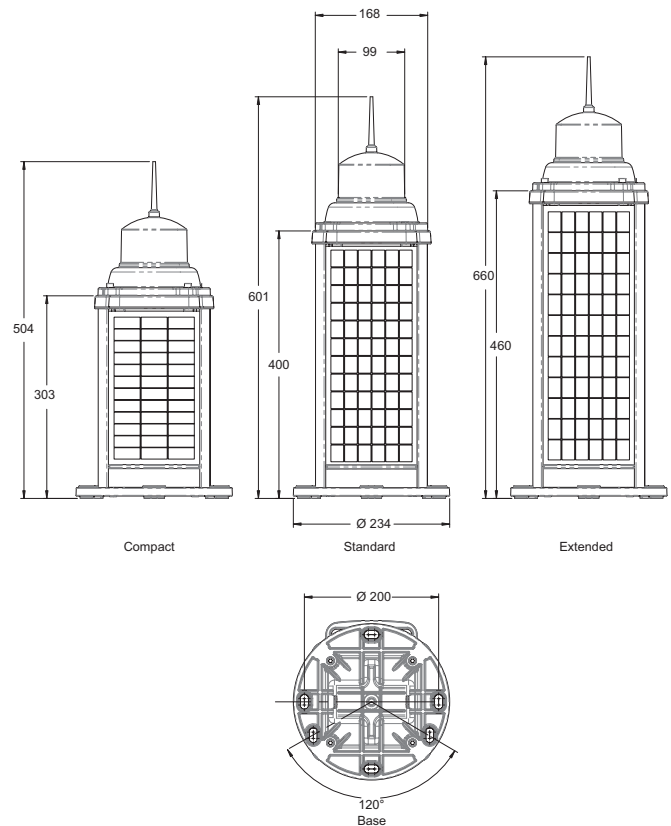
00 No Options  
01 Switch  
02 Charge Port  
03 Charge Port and Switch  
04 SAT Only  
05 SAT with Switch  
06 SAT with Charge Port  
07 SAT with Charge Port and Switch  
08 GSM Only  
09 GSM with Switch  
10 GSM with Charge Port  
11 GSM with Charge Port and Switch

## Technical Illustrations

**SL-C310  
Base Model**

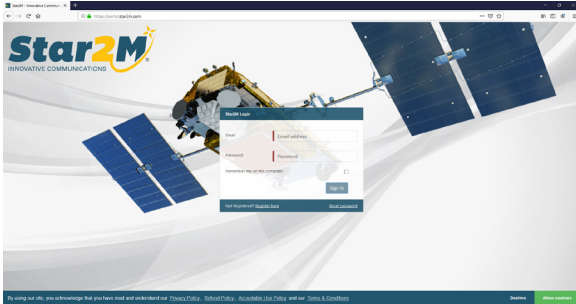


**SL-C310 with  
Satellite Module**



## Star2M - Monitoring option available

GPS positioning via internet mapping system



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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.

- ✓ Experienced & Trained Personnel
- ✓ Worldwide Distribution Team
- ✓ Agile Manufacturing
- ✓ Product Innovation
- ✓ Precision Construction
- ✓ Total Quality Management
- ✓ ISO9001:2015
- ✓ Rapid Turnaround



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