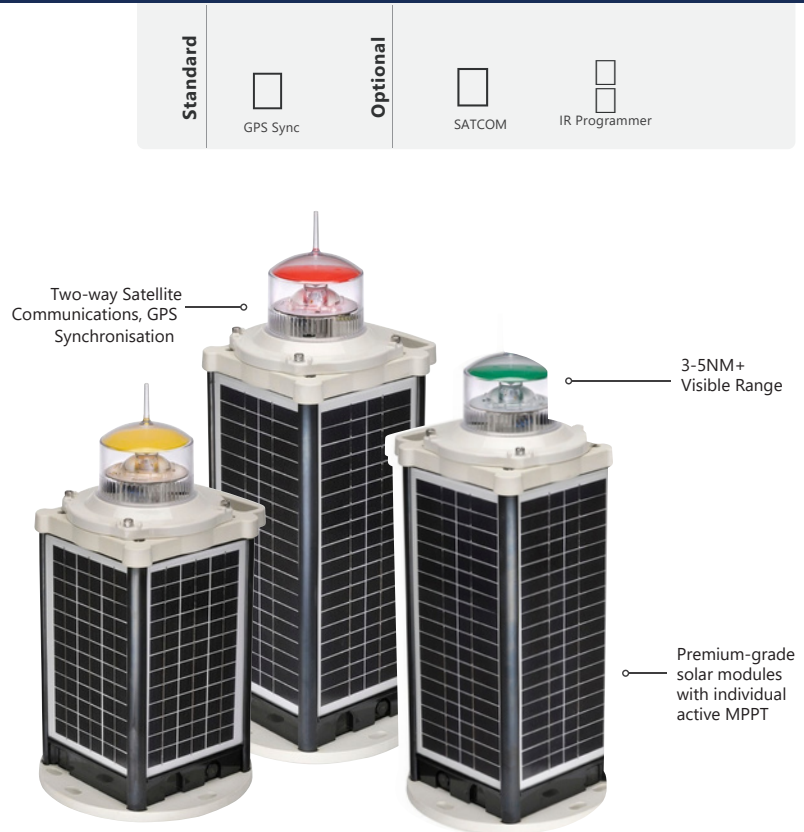


The SL-C310 is a robust, self-contained range of 3-5NM+ Solar LED marine lanterns. The range is available in three chassis sizes with satellite connectivity offered as an option.

### Key Features:

- Intensity Range of 3-5NM+
- Enhanced Optics
- GPS synchronisation
- High performance, premium-grade solar modules with active MPPT
- Satellite Communications Enabling Two-Way Monitoring



### 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.

### Three Size Options

The SL-C310 range is available in three chassis sizes (compact, standard and extended) to accommodate larger battery capacity and additional solar charging capability.

SL-C310 Range\_DATA\_EN\_V3.3

### 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.

Control and monitoring is accessible through the proprietary Star2M® portal.



## SL-C310

## Compact

## Standard

## Extended

## Light Characteristics

|                                 |                                                 |  |  |
|---------------------------------|-------------------------------------------------|--|--|
| 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                                        |  |  |

## Electrical Characteristics

|                     |                                          |                                           |  |
|---------------------|------------------------------------------|-------------------------------------------|--|
| 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) |  |

## Solar Characteristics

|                     |                 |                |                    |
|---------------------|-----------------|----------------|--------------------|
| Solar Module Type   | Monocrystalline |                |                    |
| Output (watts)      | 20 (4 x 5watt)  | 28 (4 x 7watt) | 33.6 (4 x 8.4watt) |
| Charging Regulation | MPPT            |                |                    |

## Power Supply

|                       |                        |    |  |
|-----------------------|------------------------|----|--|
| Battery Type          | SLA (Sealed Lead Acid) |    |  |
| Battery Capacity (Ah) | 12                     | 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)         | 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 ^                                                                                            |                |                |

## 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 colors compliant to IALAE-200-1                                    |  |  |
| Ingress Protection | IP68                                                                      |  |  |

## Intellectual Property

|                   |                                                              |                                  |                          |
|-------------------|--------------------------------------------------------------|----------------------------------|--------------------------|
| Trademarks        | SEALITE® is a registered trademark of Sealite Pty Ltd        |                                  |                          |
| Warranty *        | 3 years                                                      |                                  |                          |
| Options Available | • 50mm pole mount adapterplate<br>• Satellite Communications | • External Battery Charging Port | • External ON/OFF Switch |



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

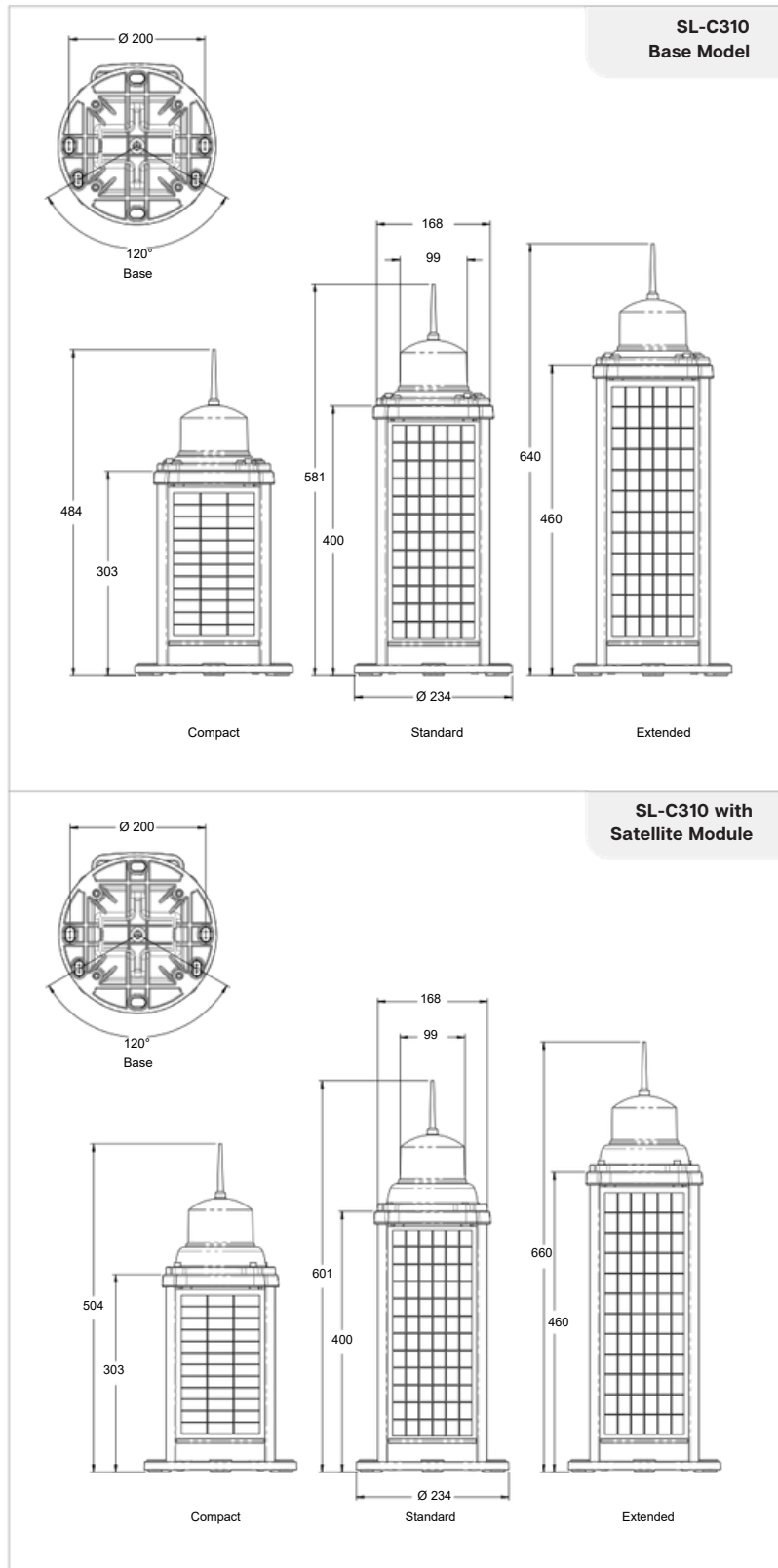
\*Subject to standard terms and conditions  
^ Refer to the Sealite website under the warranty section

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Fast | Efficient | Reliable... Always!

## Technical Illustrations



SL-C310 Range\_DATA\_EN\_V3.3

## Ordering This Product

SL-C310-07D-[XXXX]-[X]-[XX]



- 1 **Product Number**
- 2 **Lens Type**  
07D (7 Degree)
- 3 **Chassis Configuration**  
S2C0 (Compact)  
S2C1 (Standard)  
S2C2 (Extended)
- 4 **LED Option:**  
W White  
Y Yellow  
G Green  
R Red  
B Blue
- 5 **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



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