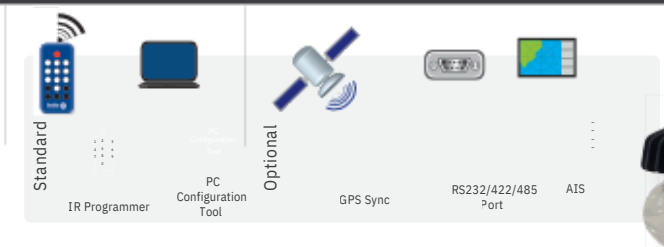
# 13–19NM Long Range Lantern

## SL-300 Series — SL-300-2D5-1 & SL-300-2D5-2



The SL-300-2D5 Series are 13 to 19NM long range marine lanterns with 2.5 degree vertical distribution, suitable for a range of applications.

### High Intensity, Small Form Factor

The SL-300-2D5 series offers multiple intensity adjustments to over 46,000cd luminous intensity in a single tier (over 93,000cd in a 2-tier configuration). The small form factor provides minimal wind loading and convenient handling – delivering significant advantages over traditional larger lens stack assemblies.

### Advanced Thermal Management

The SL-300-2D5 Series features precision lower, mid and upper heat sinking. The custom designed heat sinks are interconnected, and designed to maintain an appropriate LED temperature across a wide range of duty cycles, enabling the lanterns to run efficiently whilst maintaining a compact size.

### 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

For flash synchronisationoflanternsa GPS module may be fitted.

Precision upper heat sink

Shown with optional GPS antenna

### The Sealite Advantage

- Over 46,000cd luminous intensity white - single tier
- Over 93,000cd luminous intensity white - two tier
- Compact two tier lantern up to 19NM visible range
- PC or IR Programmer for setup, diagnostic & testing
- Internal or external photocell options
- User configurable day/night lux levels
- Advanced remote monitoring features
- Wide operating voltage range 21–58VDC
- Internal data-logging for long term retention of key operational parameters & alarm conditions
- General purpose inputs (two) & outputs (two)

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## Technical Specifications•*

| SL-300 Series | 2.5o Single Tier Model<br>SL-300-2D5-1 | 2.5o Two Tier Model<br>SL-300-2D5-2 |
|---|---|---|
| **Light Characteristics** | | |
| Light Source | High efficiency LEDs | |
| Available Colours | White. Other colours available on request | |
| Typical Maximum Intensity (cd)† | White - 46,700 cd<br>Red - 21,000 cd<br>Green - 18,000 cd | White - 93,400 cd<br>Red - 42,000 cd<br>Green - 36,000 cd |
| Visible Range (NM) | AT @ 0.74: 13–17.5<br>AT @ 0.85: 19.2–26.9 | AT @ 0.74: 18–19<br>AT @ 0.85: 27.8–29.6 |
| Horizontal Output (degrees) | 0° - 360° | |
| Vertical Divergence (degrees) | >2.5 | |
| Available Flash Characteristics | Up to 310 including 256 IALA recommended, & 1 custom | |
| Intensity Adjustments | User adjustable | |
| LEDLife Expectancy(hours) | >100,000 | |
| **Electrical Characteristics** | | |
| Voltage Range(V) | 24-48V DC | |
| Nominal Voltage (V) | 24V DC | |
| Peak Power (W) | 38 | 76 |
| Average Power(W) | 4 | 8 |
| **Physical Characteristics** | 13 | 26 |
| Body Material | 2 Marine grade two part epoxy coating to resist the elements | 4 |
| Lens Material | UV-stabilised acrylic | |
| Lens Diameter (mm/inches) | 298 / 11¾ | |
| Lens Design | Multiple LED optic | |
| Mounting | 3 & 4 hole 200mm bolt pattern | |
| Height (mm/inches) | 216 / 8½ | 342 / 13½ |
| Width (mm/inches) | 298 / 11¾ | 298 / 11¾ |
| Mass (kg/lbs) | 8.8 / 19½ | 18 / 39¾ |
| Product LifeExpectancy | Up to 12 years | |
| **Environmental Standards** | | |
| Shock | MIL-STD-202-213 Test condition H | |
| Vibration | MIL-STD-202-204 Test Condition B (5g) | |
| Ice Loading | Rated to withstand 22kg/m2 | |
| Temperature Range | -40 to 80°C | |
| Wind Exposure | Rated to withstand 140 knots | |
| Humidity | 0 - 100%, condensing | |
| Driving Rain | at 45° from vertical | |
| **Certifications** | | |
| Immunity | EN 61000-6-1: 2007 (IEC61000-6-1: 2005). | |
| Emission | EN 61000-6-4: 2007 (IEC 61000-6-4: 2006) + A1: 2001 | |
| FCC Part 15 Rules | IFCC Part 15 Subpart B | |
| IALA | Signal colours compliant to IALA E-200-1 | |
| Quality Assurance | ISO 9001:2015 | |
| Waterproof | IP68 | |
| **Intellectual Property** | | |
| Trademarks | SEALITE® is a registered trademark of Sealite Pty Ltd | |
| **Warranty*** | | |
| | 3-year warranty | |
| **Options Available** | | |
| | • GPS Synchronisation<br>• AIS Type 1 or Type 3<br>• RS232/422/485 Port<br>• General purpose inputs (2) & outputs (2)<br>• Variety of solar/battery configurations<br>• Bird deterrent spikes<br>• Serial programming cable | |

• Specifications subject to change or variation without notice Subject to standard terms and conditions † Intensity setting subject to solar availability*

*AIS option will be with external Type 1 or Type 3 AIS transponder
*Refer to the Sealite website under the warranty section

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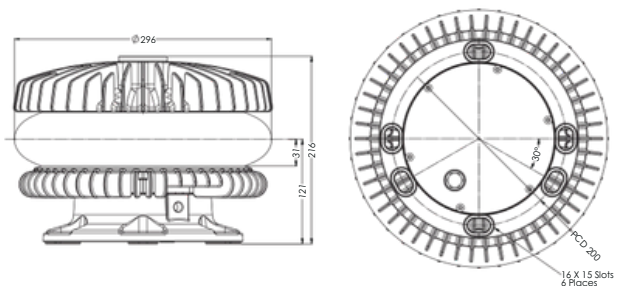
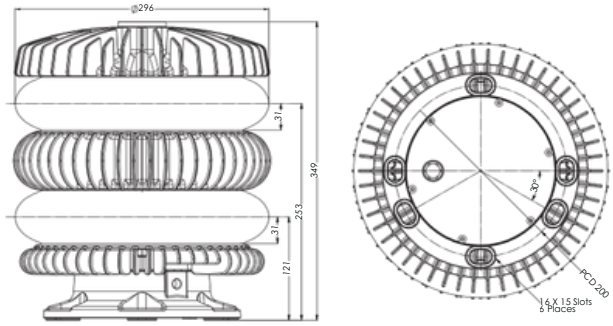
## Technical Illustrations

SL-300-2D5-1 Model




SL-300-2D5-2 Model




## HOW TO ORDER

### 13–19NM Long Range Lantern

SL-300-2D5-[tiers]-[colour]-[?]-[?]

**Product No.:**

**Model:**
2D5 = 2.5o Divergence

**Tiers:**
1 = Single tier
2 = Two tier

**Colour:**
W = White
(other colours available on request)

**Monitoring & Control:**
GPS = GPS Synchronisation
AIS1 = AIS Type 1
AIS3 = AIS Type 3
[blank] = No monitoring & control

**RS Communications Port:**
RS = RS communications port
[blank] = No RS communications port

Note: Please contact your Sealite representative for optional power supply solutions

## HOW TO ORDER

### Solar Power Supply

SL-PS-110-140-01

**Product No.:**

**Battery Capacity:**
110 = 110 Ah

**Solar Output:**
140 = 140 watts

**Mount Type:**
01 = post mount

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