

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 synchronisation of lanterns a 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)

Technical Specifications*

SL-300 Series	2.5° Single Tier Model	2.5° Two Tier Model
	SL-300-2D5-1	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 Red - 21,000 cd Green - 18,000 cd	White - 93,400 cd Red - 42,000 cd Green - 36,000 cd
Visible Range (NM)	AT @ 0.74: 13–17.5 AT @ 0.85: 19.2–26.9	AT @ 0.74: 18–19 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	
LED Life Expectancy (hours)	>100,000	
Electrical Characteristics		
Voltage Range (V)	24-48V DC	
Nominal Voltage (V)	24V DC	
Peak Power (W)	384	768
Average Power (W)	132	264
Physical Characteristics		
Body Material	Marine grade two part epoxy coating to resist the elements	
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 Life Expectancy	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		
<ul style="list-style-type: none"> • GPS Synchronisation • AIS Type 1 or Type 3 • RS232/422/485 Port • General purpose inputs (2) & outputs (2) • Variety of solar/battery configurations <ul style="list-style-type: none"> • Bird deterrent spikes • 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

We believe technology improves navigation™



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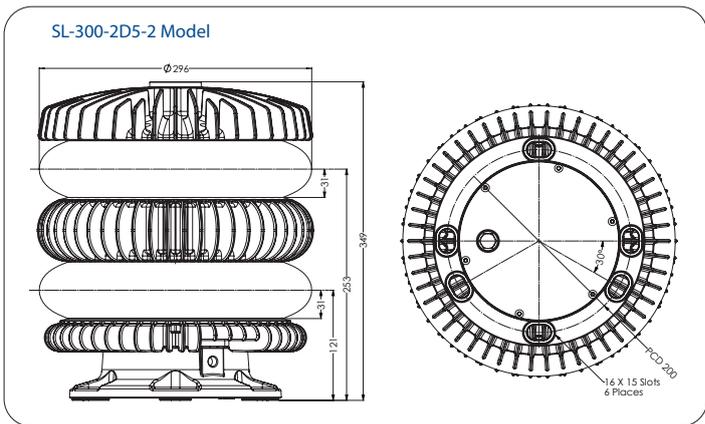
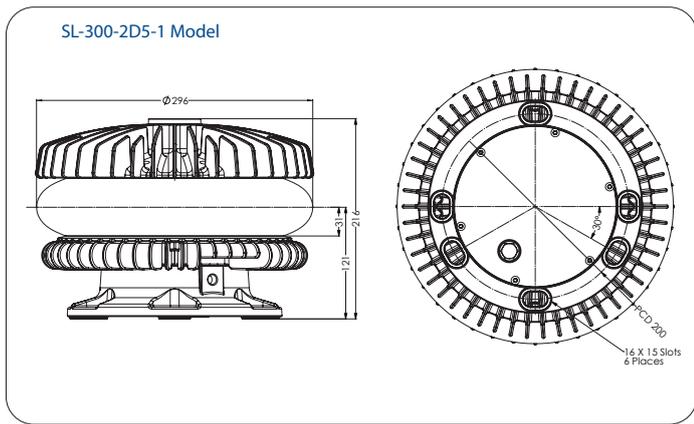
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Technical Illustrations



HOW TO ORDER

13-19NM Long Range Lantern

Product No.: SL-300-2D5-[tiers]-[colour]-[?]-[?]

Model: _____
2D5 = 2.5° 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

Product No.: SL-PS-110-140-01

Battery Capacity: _____
110 = 110 Ah

Solar Output: _____
140 = 140 watts

Mount Type: _____
01 = post mount

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