13–21NM Long Range Lantern

SL-300 Series – SL-300-1D5-1 & SL-300-1D5-2

The SL-300-1D5 series are 13 to 21NM long range marine lanterns with 1.5 degree vertical distribution, suitable for a range of day and night applications.

High Intensity, Small Form Factor

The SL-300-1D5 series offers multiple intensity adjustments to over 90,000cd luminous intensity in a single tier (over 180,000cd 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.

Optional GPS Synchronisation

ForflashsynchronisationoflanternsaGPS module may be fitted.

High Efficiency

The long rangelanterns produce a class-leading intensity to power ratio, making them highly efficient and suitable for solar power solutions.

Advanced PC or IR Programming

Sealite's convenient PC ConfigurationTool 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**

Precision upper heat sink

Shown with optional GPS antenna

The Sealite Advantage

- Over 90,000cd luminous intensity white - single tier
- Over 180,000cd luminous intensity white - two tier
- Compact lantern up to 21NM 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)

AEROMARINE
Fast | Efficient | Reliable... Always!
24 x 7 HOTLINE
+91 9699881187
+91 86553 22366
+91 86553 22367
navigation@aeromarineindia.com
www.aeromarineindia.com

Technical Specifications·*

SL-300 Series	1.5o Single Tier Model	1.5o Two Tier Model
	SL-300-1D5-1	SL-300-1D5-2
Light Characteristics		
Light Source	High efficiency LEDs	
Available Colours	White. Other colours available on request.	
Typical Maximum Intensity (cd)†	White - 94,400	White - 188,800
Visible Range (NM)	AT @ 0.74: 13–19 AT @ 0.85: 19.2–29.5	AT @ 0.74: 19–21 AT @ 0.85: 29.6–33
Horizontal Output (degrees)	360	
Vertical Divergence (degrees)	>1.5	
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)	384	76
Average Power (W)	132	8
Physical Characteristics		26
Body Material	Marine grade two part epoxy coating to resist the elements	4
Lens Material	UV-stabilised acrylic	
Lens Diameter (mm/inches)	373 / 14¾	
Lens Design	Multiple LED optic	
Mounting	3 & 4 hole 200mm bolt pattern	
Height (mm/inches)	302 / 12	496 /
Width (mm/inches)	373 / 14¾	19½ 373
Mass (kg/lbs)	18.5 / 40¾	/ 14¾
Product LifeExpectancy	Up to 12 years	38.5 /
Environmental Standards		85
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 60°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 AIS Type 1 or Type 3 ·General purpose inputs (2) & outputs (2) ·Variety of solar/battery configurations ·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

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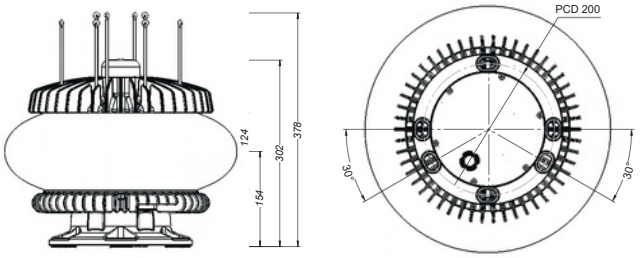
*AIS option will be with external Type 1 or Type 3 AIS transponder

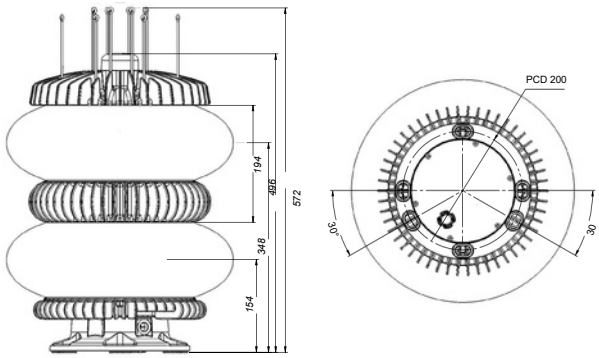
*Refer to the Sealite website under the warranty section

Technical Illustrations

SL-300-1D5-1 Model



SL-300-1D5-2 Model



HOW TO ORDER

13–21NM Long Range Lantern

SL-300-1D5-[tiers]-[colour]-[?]-[?]

Product No.:

Model:
1D5 = 1.5o 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 communicationsport
[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=110Ah

Solar Output:
140 = 140 watts

Mount Type:
01 = post mount

IALA

We believe technology improves navigation™