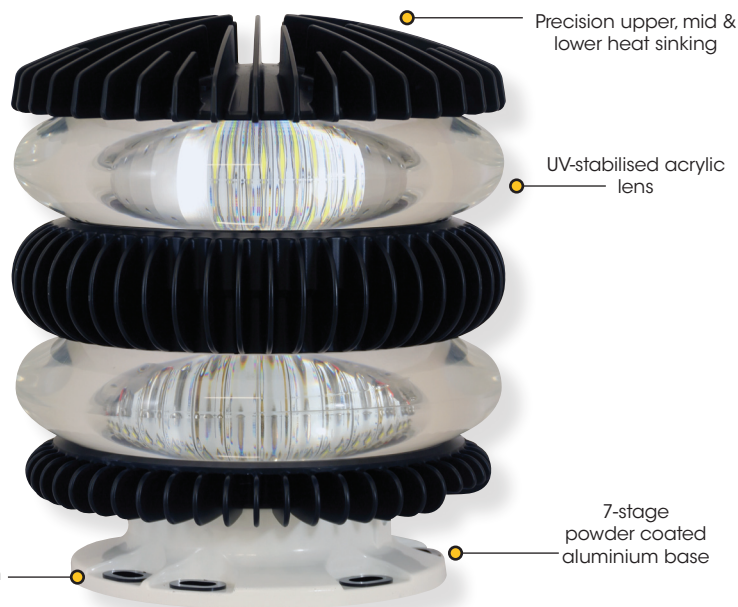
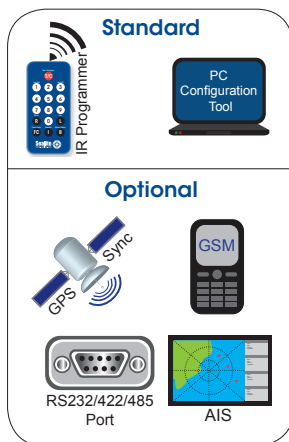


18-19NM Marine Lantern

APOLLO Series — SL-300-2

V1.2_2014



The Sealite Advantage

- Over 77,000cd luminous intensity white
- Compact two tier lantern up to 19NM visible range
- Multiple user-adjustable intensity settings
- 370 standard flash codes
- User customised flash character
- 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 20 – 58VDC
- Internal data-logging for long term retention of key operational parameters & alarm conditions
- Hardware synchronisation supporting RS232, RS485, RS422
- 3 & 4 hole 200mm bolt pattern
- General purpose inputs (two) & outputs (two)

The APOLLO SL-300-2 is an 18 to 19NM long range marine lantern with 2.5 degree vertical distribution, suitable for a range of applications including ports & harbours, lighthouse authorities, and general marine navigation.

Small Form Factor

The two tier SL-300-2 offers multiple intensity adjustments to over 77,000cd luminous intensity – providing high levels of efficiency, minimal wind loading, and delivering significant advantages over larger assemblies.

Advanced Thermal Management

The SL-300-2 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
- 370 flash settings including custom character
- Automatic effective intensity adjustment
- Adjustable on/off lux levels
- Low battery threshold
- GPS synchronisation offset
- Alarm conditions
- Hibernation mode

Optional GPS Synchronisation

For flash synchronisation of lanterns a GPS module may be fitted.

When lanterns flash in synchronisation they can be clearly distinguished from other nav aids and confusing background lighting.

Multiple general purpose inputs and outputs allow for hardware synchronisation and main/standby lantern configurations.

Optional GSM Monitoring & Control

The SL-300-2 lantern may also be fitted with a GSM module for monitoring and control – enabling users to access real-time diagnostic data and change lantern settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.

Optional Type 1 or Type 3 AIS

The SL-300-2 lantern is available with a class-leading integrated, low-powered Type 1 or Type 3 AIS.

When fitted, the AIS is encapsulated within the body of the SL-300-2 to maintain the weatherproof integrity. VHF and GPS antennas to support AIS are fitted directly to the top surface of the lantern - offering significant advantages over competitor's products with externally wired GPS & VHF antennae and AIS systems.



18-19NM Marine Lantern

APOLLO Series — SL-300-2

SPECIFICATIONS* * APOLLO Series SL-300-2

Light Characteristics

Light Source	High efficiency LEDs
Available Colours	White. Other colours available on request
Maximum Luminous Intensity (cd)†	White - 77,220
Visible Range (NM)	18-19
Horizontal Output (degrees)	0° - 360°
Vertical Divergence (degrees)	2.5
Available Flash Characteristics	Up to 370 including 256 IALA recommended, & 1 custom
Intensity Adjustments	User adjustable
LED Life Expectancy (hours)	>100,000

Electrical Characteristics

Current Draw (A)	Variable up to 17
Power (W)	Variable up to 408
Circuit Protection	Polarity protected
Nominal Voltage (VDC)	24-48
Temperature Range	-40 to 80°C

Physical Characteristics

Body Material	7-stage powder-coated aluminium
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)	342 / 13½
Width (mm/inches)	298 / 11¾
Mass (kg/lbs)	18 / 39¾
Product Life Expectancy	Up to 12 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
Immersion	MIL-STD-202G, Method 104A
Salt Fog	Rated to withstand continuous exposure to salt water and spray
Ice Loading	Rated to withstand 22kg/m²
Wind Exposure	Rated to withstand 140knots
Hail Impact	Rated to withstand 25mm diameter ice ball impact at 20m/s
Humidity	0 - 100%, condensing
Driving Rain	at 45° from vertical

Certifications

CE & Electrical	FCC Part 15 Rules & ICES-003. EN61000-6-1: 2007 (IEC61000-6-1:2005) Part 6-1 Immunity. EN61000-6-3: 2007 (IEC61000-6-3: 2006) Electromagnetic compatibility (EMC) - Part 6-3 Emission. IEC61000-4-2: 2008 Ed 2 Part 4-2 Electrostatic discharge immunity test Level 4. IEC61000-4-3: 2010 Ed 3.2 Part 4-3. Radiated, radio-frequency, electromagnetic field immunity. IEC61000-4-6: 2008 Ed3. , Electromagnetic compatibility (EMC) - Part 4-6 Immunity. IALA Quality Assurance Waterproof IP68
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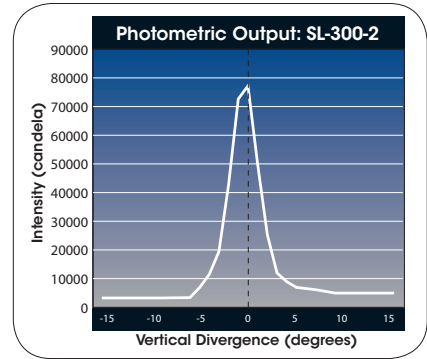
Intellectual Property

SEALITE® is a registered trademark of Sealite Pty Ltd

Warranty *

Options Available

- GPS Synchronisation
- AIS Type 1 or Type 3
- GSM Monitoring & Control System
- RS232/422/485 Port
- Bird deterrent spikes



Optical Performance

Maximum luminous intensity* (cd)

WHITE

77,220

* luminous intensity measurements based on 30% duty cycle, 100% intensity. Lantern's active automatic calibration for longer duty cycles provides temperature control to protect LEDs.



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

Model shown with optional bird deterrent spikes, GPS & VHF antenna

