SLC600
6–9nm+ Solar Marine Lantern

This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66

**Available with
GPS Synchronisation,
RF Synchronisation, Radio Control
or GSM Monitoring & Control**

SL125-4 light-head
(144 ultra-high intensity
LEDs. IP68 rating)

LED lens and Sealite's
360° Omnidirectional
LED Reflector
(US Pat. No. 6,667,582.
AU Pat. No. 778,918)

Rotationally-moulded,
UV-stabilised, virgin
polyethylene body

4 x 20watt
(80watts total)
multicrystalline solar
modules, ensuring
maximum light
collection to charge
the battery

Internal 100Ah battery

High visibility
IALA colours for
daytime recognition

7-stage powder-coated
aluminium base with
handles for ease of
installation
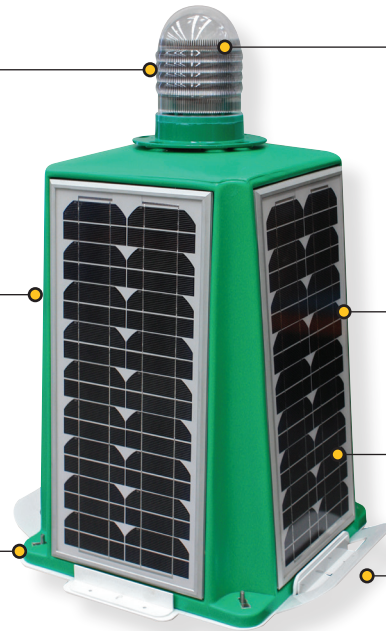
The Sealite Advantage

- **Complete unit – ready for immediate installation**
- **Impact & weather resistant polyethylene**
- **Handles on the base for ease of installation**
- **256 IALA flash patterns, user-adjustable without the need for external devices**
- **Vertical light emissions to maintain visibility when passing adjacent to light**

The SLC600, one of the world's largest self-contained LED lanterns, is a 6–9nm+ Solar LED Marine Lantern designed for a range of low-maintenance applications. The large solar array makes this lantern perfect for low sunlight regions.

The light boasts a large internal battery compartment, a multiple tiered SL125 LED light-head and 4 premium-grade 20watt solar modules mounted to collect sunlight at all angles.

The SLC600 is moulded from UV-stabilised, virgin polyethylene, providing enormous impact and weather resistance, in addition to high visibility IALA colours.

The tough polycarbonate lens is specifically designed for use with LEDs and also enables vessel operators clearly see the light from above, when passing the AtoN.

The user-friendly, 2-piece design allows the lantern to be opened for convenient battery inspection or replacement whilst the base remains fixed to the supporting structure.

Optional RF Synchronisation or GPS Synchronisation

The SLC600 may be fitted with an optional RF Synchronisation module for short range flash synchronisation. For flash synchronisation of lanterns installed over longer ranges, a GPS module may be fitted.

When lanterns flash in synchronisation they can be clearly distinguished from other navaids and confusing background lighting – ideal for rivers, marina entrances, channel marking and aquaculture.

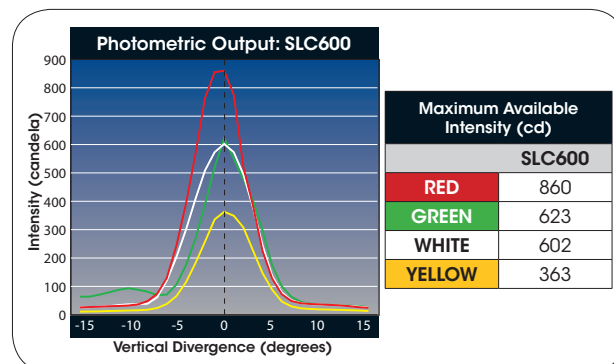### Optional GSM Monitoring & Control System

The SLC600 may also be fitted with GSM Remote Monitoring and Control capabilities – enabling users to access real-time diagnostics data and change lantern settings via cell-phone or PC interface.

Optional AIS Remote Monitoring

AIS integration enables remote monitoring of the SLC600 as well as crucial message 21 information to be broadcast to mariners within the region.
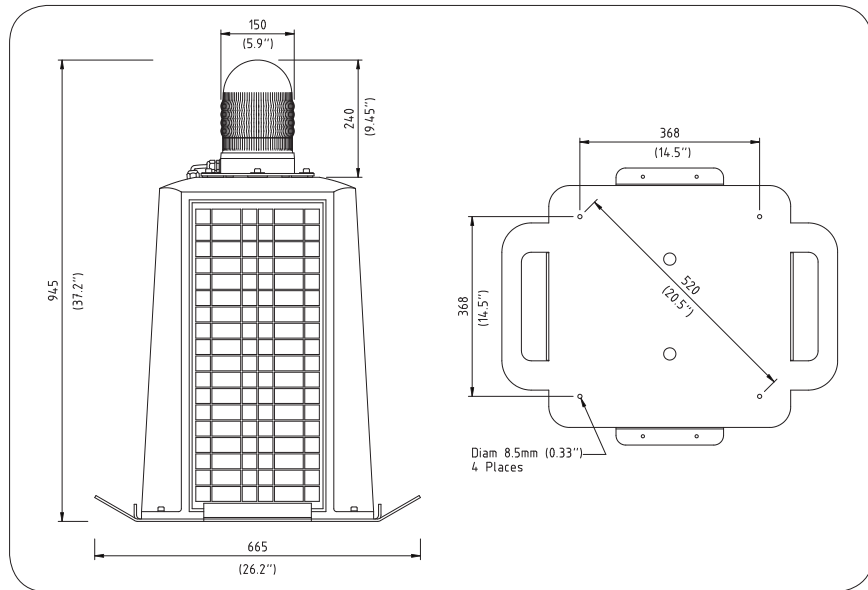
Optional Radio Control System

Radio Control may be fitted to the SLC600 model enabling users to remotely modify the setup of their lantern via handheld radio controller.

Photometric Output: SLC600

Maximum Available Intensity (cd)	
	SLC600
RED	860
GREEN	623
WHITE	602
YELLOW	363

Intensity (candela) vs *Vertical Divergence (degrees)*

SLC600
6–9nm+ Solar Marine Lantern

150
(5.9")

240
(9.45")

945
(37.2")

665
(26.2")

368
(14.5")

368
(14.5")

520
(20.5")

Diam 8.5mm (0.33")
4 Places

SPECIFICATIONS •

Light Characteristics

Light Source	SL125-4 (144 LED lantern as standard)
Available Colours	Red, Green, White, Yellow, Blue
Maximum Available Intensity (cd)†	Red - 860 Green - 623 White - 602 Yellow - 363
Visible Range (nm)	6–9+
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	5
Reflector Type	Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582. AU Pat. No. 778,918)
Available Flash Characteristics	Up to 256 IALA recommended (user adjustable)
Intensity Adjustments	Adjustable in 25% increments
LED Life Expectancy (hours)	>100,000

Electrical Characteristics

Current Draw (mA)	Refer to Sealite Power Calculator
Circuit Protection	Integrated
Nominal Voltage (v)	12
Autonomy (days)	>20 (14 hour darkness, 12.5% duty cycle)
Temperature Range	-40 to 80°C

Solar Characteristics

Solar Module Type	Multicrystalline
Output (watts)	80 (4 x 20watt)
Solar Module Efficiency (%)	14
Charging Regulation	Microprocessor controlled

Power Supply

Battery Type	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	100
Nominal Voltage (v)	12
Battery Service Life	Average 5 years

Physical Characteristics

Body Material	Rotationally-moulded UV-stabilised virgin polyethylene
Lens Material	LEXAN® Polycarbonate – UV-stabilised
Lens Diameter (mm/inches)	150 / $5^7/_8$
Lens Design	External optics with interior flute design
Mounting	4 x 11mm mounting holes
Height (mm/inches)	945/ $37^1/_4$
Width (mm/inches)	665 / $26^1/_4$
Mass (kg/lbs)	60 / $132^1/_4$
Product Life Expectancy	Up to 12 years

Certifications

CE	EN61000-6-3:1997. EN61000-6-1:1997
Quality Assurance	ISO9001:2008
Waterproof	IP68 light-head

Intellectual Property

Patents	US Pat. No. 6,667,582. AU Pat. No. 778,918
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd

Warranty *
3 years

Options Available

- 200mm OD mounting plate
- GPS Synchronisation
- RF Synchronisation
- AIS Remote Monitoring
- GSM Monitoring & Control System
- Radio Control System
- *Note* - remote monitoring/control will reduce visible range of lantern due to increased power consumption
- 9 degree lens
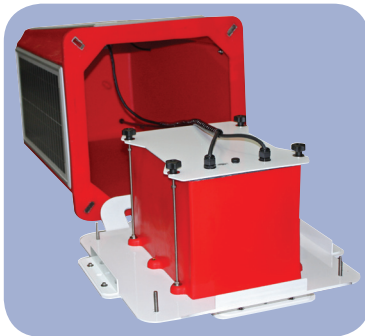
Convenient battery replacement

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

CE