SL-C500
5–7NM+ Solar Marine Lantern

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

SL-125-2 light-head
(72 ultra-high intensity LEDs. IP68 rating)

Optional

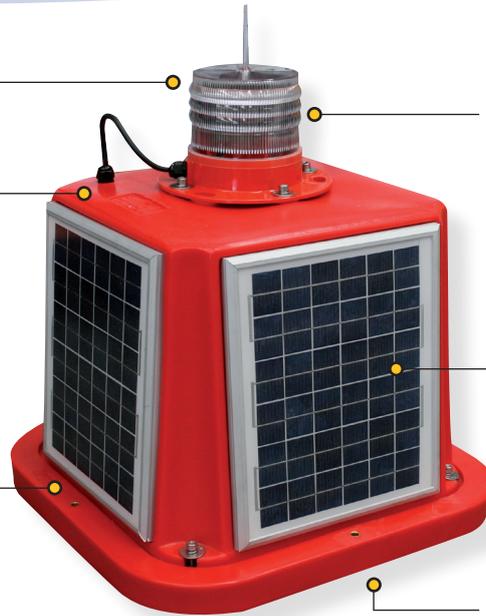RF Sync

Radio Control

GPS Sync

GSM

High visibility IALA colours for daytime recognition

Rotationally-moulded, UV-stabilised, virgin polyethylene body

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

4 x 10watt (40watts total) multicrystalline solar modules, ensuring maximum light collection to charge the battery

Internal 55Ah battery

The Sealite Advantage

- Complete unit – ready for immediate installation
- Impact & weather resistant polyethylene
- 256 IALA flash patterns, user-adjustable without the need for external devices
- Tempered glass solar modules for peak efficiency
- Vertical light emissions to maintain visibility when passing adjacent to light

The SL-C500 is a completely self-contained 5–7NM+ Solar LED Marine Lantern designed for a range of low-maintenance applications.

The light boasts a large internal battery compartment, a multiple tiered SL-125 LED light-head and 4 premium-grade 10watt solar modules mounted to collect sunlight at all angles.

The SL-C500 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 incorporates an environment-friendly spike – deterring unwelcome bird life. The lens design also ensures that 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 SL-C500 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.
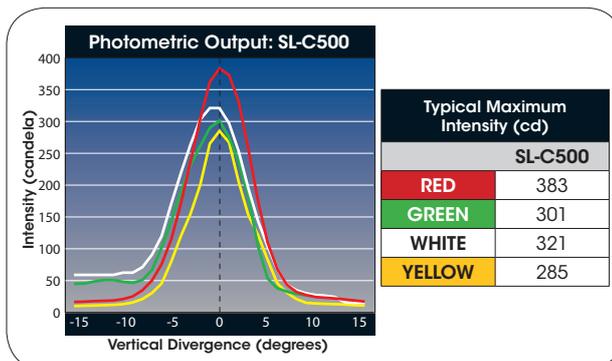
When lanterns flash in synchronisation they can be clearly distinguished from other navaids and confusing background lighting – ideal for rivers, marina entrances, channel marking and aquaculture.
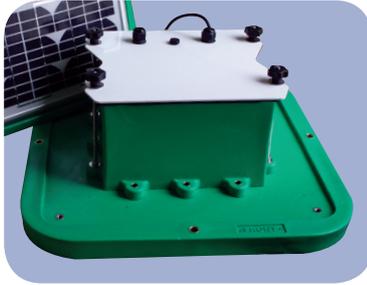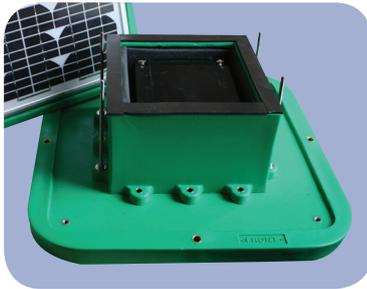
Optional GSM Monitoring & Control System

The SL-C500 may also be fitted with GSM Remote Monitoring and Control – enabling users to access real-time diagnostics data and change lantern settings via cell-phone.

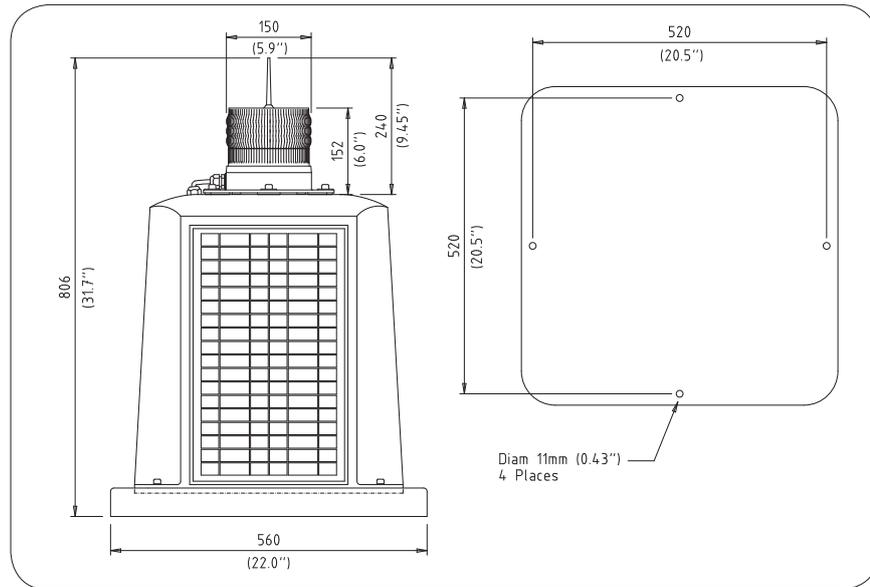### Optional Radio Control System

Radio Control may be fitted to the SL-C500 model enabling users to remotely modify the setup of their lantern via handheld radio controller.

Photometric Output: SL-C500

Intensity (candela) vs Vertical Divergence (degrees)

Typical Maximum Intensity (cd)	
	SL-C500
RED	383
GREEN	301
WHITE	321
YELLOW	285

SL-C500
5–7NM+ Solar Marine Lantern

Convenient battery replacement

Hard-wire Synchronised SL-C500 lanterns, Monsanto, Belgium

SL-C500 installed at Gladstone, Australia

SPECIFICATIONS • * SL-C500

Light Characteristics

Light Source	SL-125-2 (72 LED lantern as standard)
Available Colours	Red, Green, White, Yellow, Blue
Typical Maximum Intensity (cd)†	Red - 383 Green - 301 White - 321 Yellow - 285
Visible Range (NM)	5–7+
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	9
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)	>30 (14 hour darkness, 12.5% duty cycle)
Temperature Range	-40 to 80°C

Solar Characteristics

Solar Module Type	Multicrystalline
Output (watts)	40 (4 x 10watt)
Charging Regulation	Microprocessor controlled

Power Supply

Battery Type	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	55
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)	806 / 31$^3/_4$
Width (mm/inches)	560 / 22
Mass (kg/lbs)	35 / 77$^1/_8$
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 bolt pattern mounting plate
• GPS Synchronisation
• RF Synchronisation
• GSM Monitoring & Control System
• Radio Control System
• *Note* - remote monitoring/control will reduce visible range of lantern due to increased power consumption

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

CE