

SL50 / SL52

3-5nm+ Self-Contained Marine Lanterns

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



Available with internal GPS synchronisation



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

Adjustable 5-watt solar module(s) angled to maximise solar collection

SL50- with single 5-watt solar module

Bird deterrent spike

20 ultra-high intensity LEDs

User-replaceable 4.5Ah battery in 7-stage powder-coated aluminium housing

Available with optional 200mm OD mounting plate

The Sealite Advantage

- Impact resistant battery housing
- >10 day autonomy
- Interchangeable 20 LED flasher unit & replaceable lens assembly
- 256 IALA flash patterns, user-adjustable without the need for external devices

Sealite's 3-5nm+ lanterns represent a traditional approach to marine navigation, combined with the advantages of LED technology.

Boasting large, accessible battery compartments, inter-changeable 20 LED flasher units, and large external solar modules, the lanterns are ideal for heavy-duty conditions.

The models are available in a variety of solar/battery configurations for various latitudes and duty cycles, and are fitted with either a single solar module for fixed installations, or dual solar modules for buoy mounting, allowing the unit to collect solar radiation as the buoy swings.

The lens assembly can be easily removed for access to the LED flasher unit. The polycarbonate lens is bonded using an ultra-sonic weld to a moulded circular ring. The ring is then fastened to the aluminium attachment plate using 316-grade stainless fasteners, providing a lifetime bond without the use of bonding compounds.

Sealite's SL50 is fitted with a single 5-watt solar module, while the SL52 model is fitted with dual 5-watt panels, and 4.5Ah SLA battery, allowing the unit to operate reliably with higher duty cycles or in lower sunlight regions.

The SL50 and SL52 lanterns have been widely adopted by professionals in the marine sector, including ports and harbours, transport departments and coast guards.

The lanterns are covered by the Sealite full 3 year warranty, and all components are replaceable, and can be purchased individually in the unlikely event of damage to the unit.

Once installed, no operator intervention is required to operate the self-contained lantern. During daylight hours the solar modules will charge the battery through an advanced switch-mode regulator incorporated into the flasher unit. The lantern will automatically begin operation at dusk - once the ambient light threshold drops sufficiently.

Flash synchronisation is available via GPS.

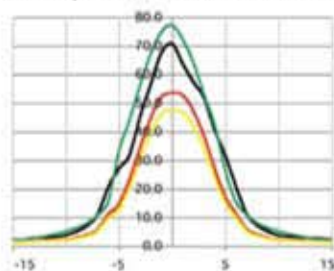


Lens assembly



Interchangeable Digital Flasher unit

SLC50/SL52 Series Vertical Divergence



Candela (cd)

SL50/52

R	53.6
G	77.2
W	70.8
Y	47.5



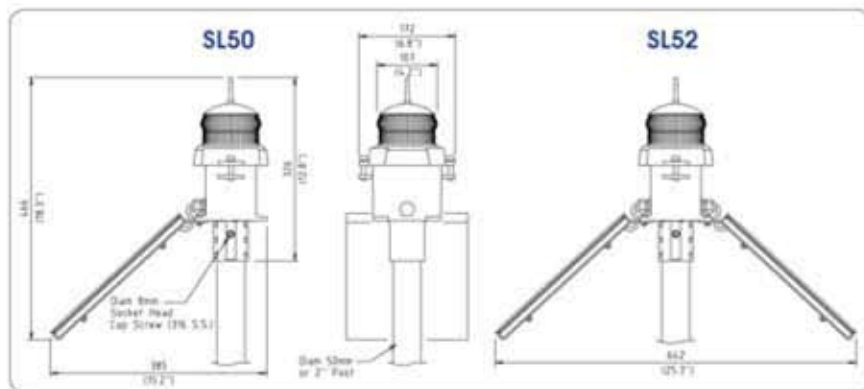
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SPECIFICATIONS

Light Characteristics

Light Source
Available Colours
Maximum Available Intensity (cd)^A
Visible Range (nm)
Horizontal Output (degrees)
Vertical Divergence (degrees)
Reflector Type

20 ultra-high intensity LEDs
Red, Green, White, Yellow, Blue
Red - 53.6 Green - 77.2 White - 70.8 Yellow - 47.5
3-5+
360
9
Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582, AU Pat. No. 778,918)
Up to 256 IALA recommended (user adjustable)
Adjustable in 25% increments
>100,000

Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)
Circuit Protection
Nominal Voltage (V)
Autonomy (days)
Temperature Range

180 (nominal)
Integrated
12
>10 (14 hour darkness, 12.5% duty cycle)
-40 to 80°C

Solar Characteristics

Solar Module Type
Output (watts)
Solar Module Efficiency (%)
Charging Regulation

Multicrystalline
SL50: 5 (1 x 5 watt) SL52: 10 (2 x 5 watt)
14
Microprocessor controlled

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)
Battery Service Life

SLA (Sealed Lead Acid)
4.5
12
Average 5 years

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

7-stage powder-coated aluminium
LEXAN® Polycarbonate - UV-stabilised
107 / 4 1/4
External optics with interior flute design
50mm OD pole
466 / 18 1/2
SL50: 385 / 15 1/8 SL52: 642 / 25 1/8
SL50: 5 / 11 SL52: 6.5 / 14 1/8
Up to 12 years

Certifications

CE
Quality Assurance

EN61000-6-3:1997, EN61000-6-1:1997
ISO9001:2000

Intellectual Property

Patents
Trademarks

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

Warranty*

Full 3 years

Options Available

- 200mm OD mounting plate (MC/D4)
- GPS synchronisation (SL50-GPS, SL52-GPS)

CC



Posig River Rehabilitation Project,
Manila, Philippines

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



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