

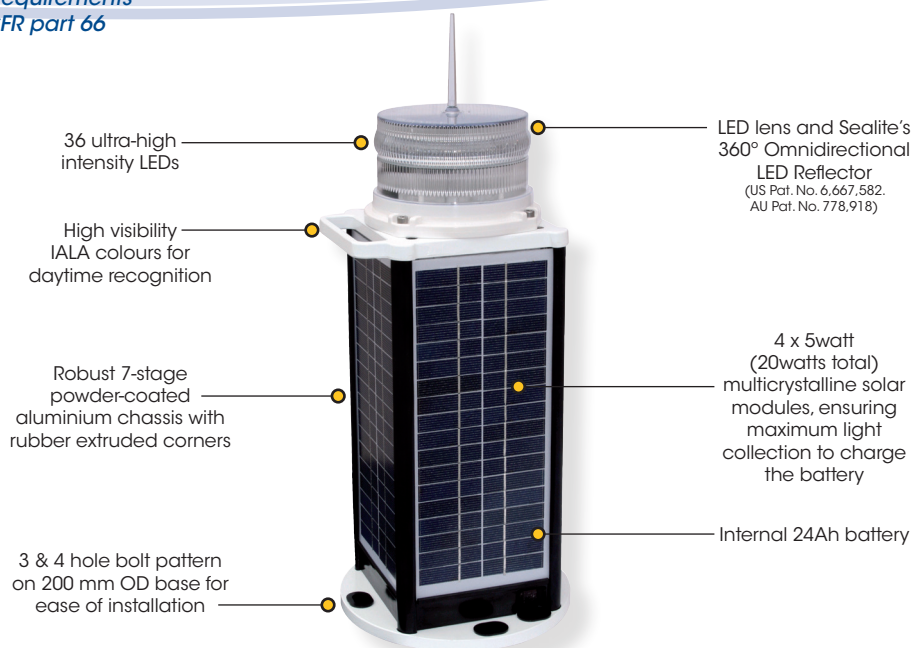
SLC420

4-5nm+ 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



The Sealite Advantage

- Simplicity of design ensures ease of maintenance in the field
- Heavy-duty aluminium construction
- All components are user-replaceable in the unlikely event of damage
- 200mm OD base pattern for immediate installation on existing structures
- User-replaceable battery
- Vertical light emissions to maintain visibility when passing adjacent to light
- IP68 waterproof
- 3 year warranty

The SLC420 is a robust, completely self-contained 4-5nm+ Solar LED Marine Lantern which incorporates a 36 LED light source for even greater light intensity. The 3 & 4 hole bolt pattern base fits directly onto existing 200mm OD industry standard mounts for ease of installation.

The chassis of the SLC420 is made from cast aluminium, subject to 7-stage powder-coating in high visibility IALA colours for daytime recognition, with UV-stabilised rubber corners and gaskets providing a superior IP68 waterproof rating – the best in the industry.

Four (4) premium-grade solar modules are integrated into the assembly and mounted to collect sunlight at all angles.

The unit is capable of producing any of 256 IALA recommended flash characters – field-adjustable without the need for ancillary equipment.

The tough polycarbonate lens is specifically designed for use with LEDs and incorporates an environment-friendly bird spike – deterring unwelcome bird life. The lens design also ensures that vessel operators clearly see the light from above, when passing the AtoN.

Optional RF Synchronisation or GPS Synchronisation

The SLC420 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.

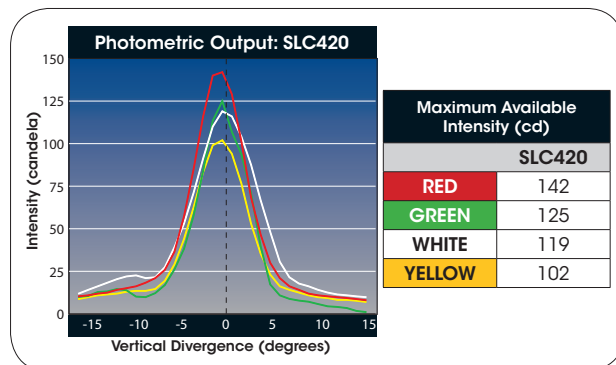
When lanterns flash in synchronisation they can be clearly distinguished from other nav aids and confusing background lighting – ideal for rivers, marina entrances, channel marking and aquaculture.

Optional GSM Monitoring & Control System

The SLC420 may also be fitted with GSM Monitoring and Control – enabling users to access real-time diagnostics data and change lantern settings via cell-phone or PC interface.

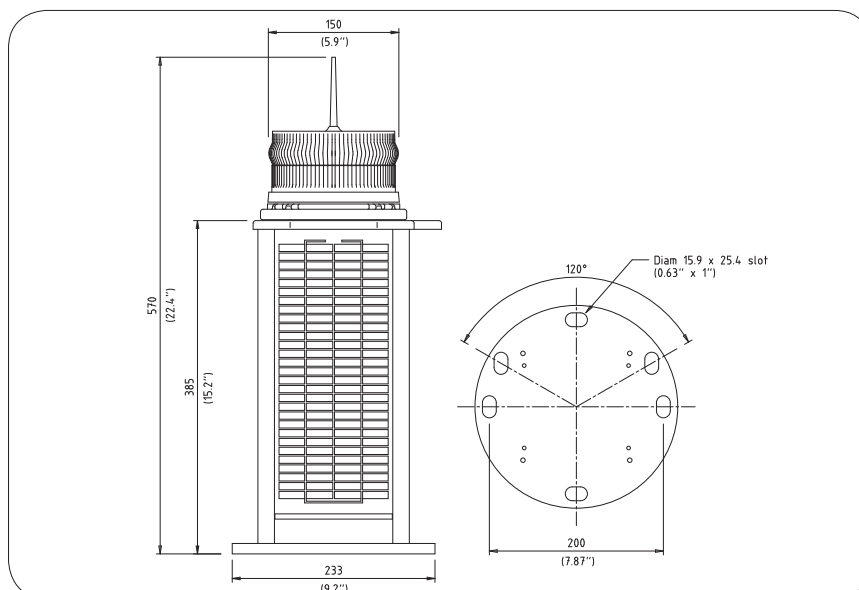
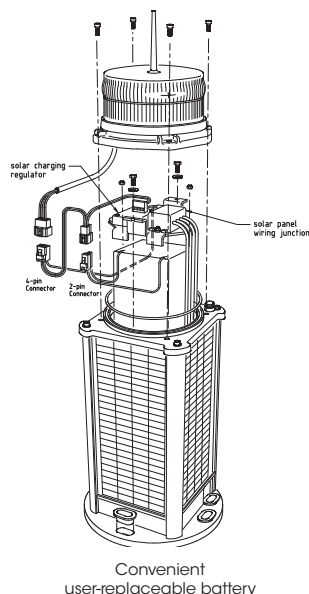
Optional Radio Control System

Radio Control may be fitted to the SLC420 model enabling users to remotely modify the setup of their lantern via handheld radio controller.



SLC420

4-5nm+ Solar Marine Lantern



SPECIFICATIONS •

Light Characteristics

Light Source 36 ultra-high intensity LEDs
 Available Colours Red, Green, White, Yellow, Blue
 Maximum Available Intensity (cd)† Red - 142 Green - 125 White - 119 Yellow - 102
 Visible Range (nm) 4-5+
 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) >15 (14 hour darkness, 12.5% duty cycle)
 Temperature Range -40 to 80°C

Solar Characteristics

Solar Module Type Multicrystalline
 Output (watts) 20 (4 x 5watt)
 Solar Module Efficiency (%) 14
 Charging Regulation Microprocessor controlled

Power Supply

Battery Type SLA (Sealed Lead Acid)
 Battery Capacity (Ah) 24
 Nominal Voltage (v) 12
 Battery Service Life Average 5 years

Physical Characteristics

Body Material 7-stage powder-coated aluminium chassis with UV-stabilised rubber corners and gaskets
 Lens Material LEXAN® Polycarbonate - UV-stabilised
 Lens Diameter (mm/inches) 150 / 5 7/8
 Lens Design External optics with interior flute design
 Mounting 3 & 4 hole bolt pattern on 200mm OD base
 Height (mm/inches) 570 / 22 1/2
 Width (mm/inches) 233 / 9 1/8
 Mass (kg/lbs) 13.9 / 30 5/8
 Product Life Expectancy Up to 12 years

Certifications

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

Intellectual Property

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

Warranty *

Options Available

- 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
- 50mm pole mount adapter plate



SLC420's mounted on SLB1250 Navigation Buoys, Pasig River, Manila, Philippines