



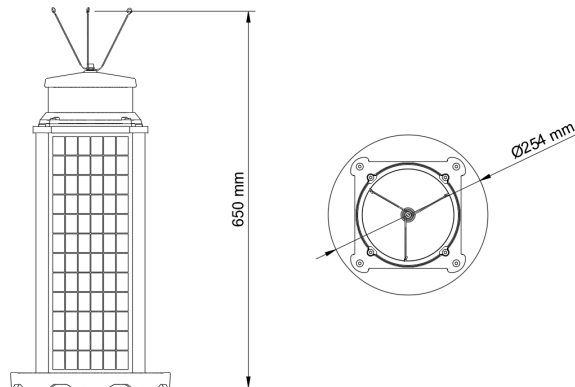
sonar  
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LN25-MLB

## 2-5 NM WITH INTEGRATED SOLAR PANELS SMART MARINE LANTERN LN25-MLB

With its sturdy construction and high corrosion-resistant aluminum alloy body, the **LN25-MLB** demonstrates resilience to even the most challenging meteorological conditions. The smart marine lantern operates independently with its built-in solar panels and battery, visible from a distance of 2-5 nautical miles, with LEDs compliant with IALA Recommendation E200-2 and a lifespan of over 100,000 hours. The smart marine lantern is available in yellow, red, green or white, in accordance with the color space defined by IALA Recommendation E200-1. It can be configured via IR remote such as flashing rate, flashing mode and intensity.

### HIGH QUALITY LENS GROUP

The **LN25-MLB** is equipped with precisely developed optical components to ensure accurate light distribution. Due to the optical components that are compliant with IALA Recommendation E200-1, E200-2 and E200-3, the light's vertical divergence angle is greater than 8 degrees, ensuring smooth visibility from all directions with its 360° lens.





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### HIGH EFFICIENCY SOLAR PANELS & MAINTENANCE FREE BATTERY

Equipped with high-efficiency solar panels, the smart marine lantern can generate up to 34W, enabling the internal battery to be fully charged without an external power source. The deep-cycle battery can reach up to 12V 24Ah and operates safely over extended periods without requiring maintenance.

#### LIGHT FEATURES

|                               |                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------|
| LIGHT SOURCE                  | LED                                                                                          |
| COLOR OPTIONS                 | Yellow, Red, Green, White                                                                    |
| MAXIMUM LIGHT INTENSITY       | Yellow 95 Cd, Red 76 Cd, Green 130 Cd, White 112 Cd                                          |
| VISUAL RANGE                  | 2-5 NM @ 0.74                                                                                |
| HORIZONTAL LIGHT DISTRIBUTION | 360°                                                                                         |
| VERTICAL LIGHT DISTRIBUTION   | >8° (±1)                                                                                     |
| FLASH MODE                    | Up to 251 IALA compliant, User programmable (Optional)                                       |
| FLASH TRIGGER MODE            | Depending on ambient light, specified time or calculated sunrise and sunset times (Optional) |
| INTENSITY                     | Adjustable brightness setting from 1 to 100 as needed                                        |
| CONTROL                       | IR remote controller, configuration switches                                                 |
| LED LIFESPAN                  | >100000 hours                                                                                |
| LED                           | High Quality Power LED                                                                       |
| LENS                          | Clear Polycarbonate                                                                          |

#### ELECTRICAL FEATURES

|                        |                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------|
| NOMINAL VOLTAGE        | 12 VDC                                                                                                      |
| BATTERY CAPACITY       | 24 Ah                                                                                                       |
| BATTERY TYPE           | SLA (Lead-Acid AGM)                                                                                         |
| BATTERY PROTECTION     | Under and over voltage protection, Overcurrent Protection (OCP)                                             |
| AUTONOMY               | >20 Days<br>(16 hours Night - 8 hours Daytime / Flash Period 0.5 Sec On 3.5 Sec Off)                        |
| SOLAR PANEL TECHNOLOGY | Monocrystalline                                                                                             |
| SOLAR PANEL POWER      | 33.6 W (4 x 8.4 W)                                                                                          |
| CHARGER                | MPPT                                                                                                        |
| CIRCUIT PROTECTIONS    | Surge Current, Surge Voltage, Overcurrent Protection (OCP), Reverse Polarity Protection and Blade Type Fuse |

#### PHYSICAL FEATURES

|                               |                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------|
| BODY MATERIAL                 | High Quality Electrostatic Powder Coated Marine Grade Aluminium Base and Chassis |
| SOLAR PANEL                   | Tempered Glass Protected                                                         |
| OPTICAL COVER                 | UV Resistant Acrylic PMMA                                                        |
| INGRESS PROTECTION            | IP 68                                                                            |
| AMBIENT OPERATING TEMPERATURE | -20 + 60°C                                                                       |
| FIXING                        | Standard 4 hole 200 mm PCD bolt pattern for M12 bolts                            |
| HEIGHT                        | 650mm, 530mm (without bird spike)                                                |
| WIDTH                         | 254mm                                                                            |
| WEIGHT                        | 16.6 kg                                                                          |

#### OPTIONS AND STANDARDS

|                    |                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STANDARDS          | EN 60945, EN IEC 61000-6-3:2021<br>EN IEC 61000-6-4:2019, ETSI EN 301-489-1 V2.2.3, ETSI EN 301-489-52 V1.2.1, EN IEC 61000-6-2:2019, EN IEC 61000-6-1:2019 |
| QUALITY MANAGEMENT | ISO 9001:2015                                                                                                                                               |
| IALA COMPLIANCE    | E200-1, E200-2, E200-3, G1065                                                                                                                               |
| OPTIONS            | RS-422, 50 mm Pole Mount                                                                                                                                    |