



sonar sea

LN25-MLS

GPS POSITION



GPS SYNC



GSM CONTROL

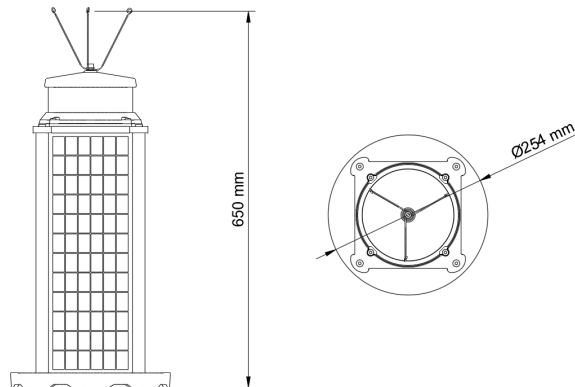


2-5 NM WITH INTEGRATED SOLAR PANELS SMART MARINE LANTERN LN25-MLS

With its sturdy construction and high corrosion-resistant aluminum alloy body, the **LN25-MLS** 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 and synchronize its flashing pattern via its high quality built-in GPS receiver.

HIGH QUALITY LENS GROUP

The **LN25-MLS** 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.



INTERNAL GPS

The LN series smart marine lantern can flash synchronously using the built-in high quality GPS receiver. Additionally, the **LN25-MLS** can calculate sunrise and sunset times for its current location every day, due to its Sync Start and Stop feature. It begins flashing at sunset time and stops at sunrise eliminating timing errors across various locations, slopes, angles, or light conditions, ensuring consistent flashing between sunset and sunrise. Multiple LN series smart marine lanterns in the same location can start and stop flashing simultaneously.

INTERNAL FAULT DETECTION

Designed to operate fully independently in hard-to-reach areas, the LN series marine lanterns continuously monitor its own operational status and generate warnings for issues such as solar panel contamination or insufficient energy production. Through optional GSM integration, it also can be configured via a web page, transmit data such as operating status, battery level, and location information, and trigger an alarm if it stops working or moves outside the defined location. If the LED unit encounters problems like brightness reduction, efficiency loss, or failure, fault information is transmitted via GSM.



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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 (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 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