

3 NM WITH INTEGRATED SOLAR PANELS

PORTABLE SOLAR BARGE LIGHT

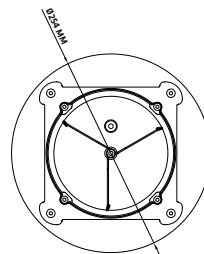
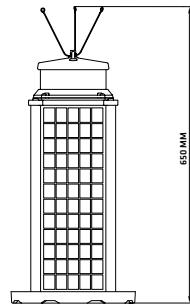
LN25-ML Barge Light Series, provide reliable performance in harsh marine environments thanks to their robust construction and corrosion resistant aluminum alloy housing. With integrated solar panels and an internal battery system, the unit operates completely self-contained and requires no external power supply.

High-efficiency LEDs with a service life exceeding 100,000 hours provide a visible range of 3 nautical mile. The LEDs are available in red, green, and white colors compliant with CIE Chromaticity Diagram (color spectrum) standards.

The unit is equipped with an integrated ambient light sensor, allowing it to automatically activate during night conditions. An on/off switch located on the housing helps prevent unnecessary battery consumption after operations, thereby extending the overall service life of the device.



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LN25-ML



HIGH QUALITY LENS GROUP

The LN25-ML Barge Light is equipped with carefully engineered optical components to ensure accurate and homogeneous light distribution. The barge light design follows standard sector angles, sidelights provide 112.5 degrees, the stern light provides 135 degrees, and the masthead light provides 225 degrees horizontal light distribution coverage.

The lights vertical divergence angle is greater than 15 degrees and provide 3 nautical miles of visible range within the light distribution area.





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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	Red Port, Green Starboard, White Stern, White Masthead
VISUAL RANGE (NM)	3 NM @ 0.74
HORIZONTAL LIGHT DISTRIBUTION (DEGREE)	Red 112.5°, Green 112.5°, White Stern 135°, White Masthead 225°
VERTICAL LIGHT DISTRIBUTION (DEGREE)	>15°
FLASHING RATE	Steady light during operation, User programmable (Optional)
FLASHING MODE	Light detection, specified time or automatic sunrise and sunset times (Optional)
LED LIFESPAN (HOURS)	>100000
LED	High Quality Power LED
LENS	Single LED Side Emitting 360° Clear Polycarbonate

ELECTRICAL FEATURES

NOMINAL VOLTAGE (V)	12 V
BATTERY CAPACITY (Ah)	24 Ah
BATTERY TYPE	SLA (Lead-Acid AGM)
BATTERY PROTECTION	Under and Over voltage, short circuit and current protection
AUTONOMY	>10 Days (16 hours Night - 8 hours Daytime)
SOLAR PANEL TECHNOLOGY	Monocrystalline
SOLAR PANEL POWER (W)	33,6 W (4X8.4 W)
CHARGER	MPPT
CIRCUIT PROTECTIONS	Surge Current, Voltage and Short Circuit Protection, Blade type fuse and reverse polarity protection

PHYSICAL FEATURES

BODY MATERIAL	High-Quality Electrostatic Paint Coated Marine Grade Aluminum Base and Chassis
SOLAR PANEL	Tempered Glass Protected
OPTICAL COVER	UV Resistant Acrylic (PMMA)
WATER RESISTANCE	IP 68
TEMPERATURE RANGE	-20 + 60 °C
FIXING	Standard 200mm Bolt Pattern
HEIGHT (MM)	659mm
WIDTH (MM)	254mm
WEIGHT (KG)	15.4 kg

OPTIONS AND STANDARDS

STANDARDS	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, ISO 14001:2015, ISO 45001:2018 - TÜV THÜRINGEN