



deStellys

MARIS

Self-Contained LED Marine Lantern

Range 4–5 NM

IALA E-200-1 COMPLIANT

MARIS is the benchmark self-contained solar marine lantern in the deStellys range, engineered to provide reliable and cost-effective performance for standard marine and inland Aids to Navigation (AtoN). Designed for installation on navigation buoys, beacons, harbor structures, and channel markers, it offers a nominal luminous range of 4 to 5 nautical miles, making it ideally suited for routine navigation marking in coastal, harbor, and inland waterway environments.

Equipped with an integrated solar power system and automatic dusk-to-dawn operation, MARIS delivers autonomous, maintenance-free performance while minimizing operational costs. Available in the full range of IALA signal colors, it provides clear and compliant visual identification of lateral, cardinal, isolated danger, safe water, and special marks. Its compact, lightweight, and rugged design enables rapid installation on virtually any fixed or floating AtoN structure, making MARIS a dependable, easy-to-maintain solution with excellent value over its service life.

AVAILABLE COLORS



Red



Green



Yellow



White



Blue

All colors are fully compliant with IALA specifications.



4–5 NM

Nominal Range



GPS

Synchronization (Optional)



12 / 20 Ah

Battery Options



4 x 3.3 W

High Efficiency Solar Panels



360°

Horizontal Coverage



IP68

Waterproof Protection

APPLICATIONS



Marine buoy marking
Lateral, cardinal and special marks in open water.



Inland & lake waterways
IALA channel marking, locks, anchorage zones.



Ports & terminals
Harbour entrance signaling, pier heads, jetties.



Offshore installations
Platforms, wind farms, aquaculture areas at sea.

TECHNICAL DATA

PHOTOMETRIC PERFORMANCE

Visible Range	4-5 NM (AT@0.74)
Max Intensity	Red 90 cd / Green 72 cd / Yellow 75 cd / White 70 cd / Blue 40 cd
Vertical Divergence	7+ deg
Horizontal Coverage	360 deg
Operation Mode	Dusk-to-dawn automatically (built-in photocell)

SOLAR CELLS

Technology	Mono-crystalline Silicon
Power Output	4 x 3.3 Watt
Charging Regulation	Microprocessor controlled

PROGRAMMING & CONFIGURATION

IALA Flash Patterns	360+ Flashing Modes
Programming Method	InfraRed Remote Controller

CERTIFICATIONS & COMPLIANCE

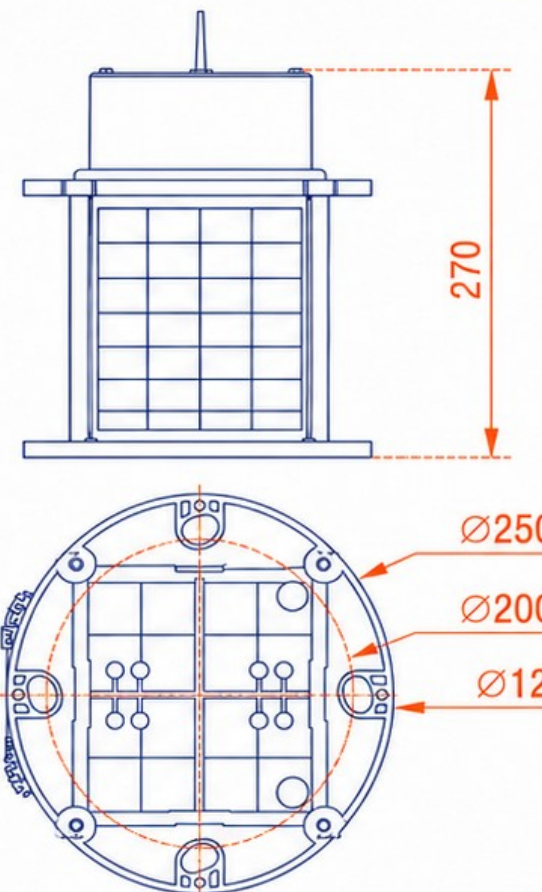
Regulations	IALA E-200-1; CE
Warranty	2 years
Life Expectancy	100,000 hours

ELECTRICAL CHARACTERISTICS

Light Source	High Performance LED
Nominal Voltage	12 V
Battery	Standard 12Ah / Extended 20Ah
Battery Type	Lithium-ion battery
Special Features	ON/OFF Switch, External Charge Port, GPS Synchronization

MECHANICAL CHARACTERISTICS

Lens Diameter	155 mm
Lens Material	UV protected Polycarbonate
Body Material	Powder Coated Aluminum
Mounting	4 holes on Ø200 mm bolt M10 pattern
Dimension	250 x 250 x 270 mm
Weight	Standard 4.5 kg / Extended 4.8 kg
Waterproofing	IP68
Temperature Range	-50°C to +60°C



DETAILS



Solar Panels

High-efficiency mono-crystalline solar panels.



Top View

Top-mounted optical assembly and compact design.



ON / OFF Switch

Easy access ON/OFF switch for quick operation.



Optical Assembly

Clear lens and LED optics for dependable signaling.

PRODUCT CODE

Standard **MARIS-c-12Ah**

Extended **MARIS-c-20Ah-GPS**

c : color

