

ASTRA

Self-Contained LED Marine Lantern

Range up to 10 NM

IALA E-200-1 COMPLIANT

ASTRA is deStellys' solar marine lantern designed for demanding environments and critical infrastructure. Larger and more powerful than MARIS, it delivers dependable performance for offshore, coastal, port, and inland Aids to Navigation (AtoN) where visibility and reliability are essential. With a nominal range reaching up to 10 nautical miles, ASTRA is ideally suited to major buoys, exposed beacons, harbor structures, and strategic channel marking.

Equipped with high-efficiency mono-crystalline solar panels, a long-life lithium-ion battery, and infrared remote programming, ASTRA allows flash characteristics to be adjusted without opening the unit. Its autonomous dusk-to-dawn operation, rugged construction, and availability in the full range of IALA signal colors make it a robust, low-maintenance solution for lateral, cardinal, isolated danger, safe water, and special marks.



Up to 10 NM

Nominal Range



GPS

Synchronization (Optional)



20 / 30 Ah

Battery Options



4 x 5 W

High Efficiency Solar Panels



360°

Horizontal Coverage



IP68

Waterproof Protection

AVAILABLE COLORS



Red



Green



Yellow



White



Blue

All colors are fully compliant with IALA specifications.

APPLICATIONS



Offshore & exposed sites

Major buoys, offshore structures, wind farms.



Ports & terminals

Harbour entrances, breakwaters, jetties.



Coastal navigation

Beacons, fairways, channel marking.



Inland waterways

Rivers, lakes, and navigation routes.

TECHNICAL DATA

PHOTOMETRIC PERFORMANCE

Visible Range	Up to 10 NM
Max Intensity	According to signal color
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 5 Watt
Charging Regulation	Microprocessor controlled

PROGRAMMING & CONFIGURATION

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

CERTIFICATIONS & COMPLIANCE

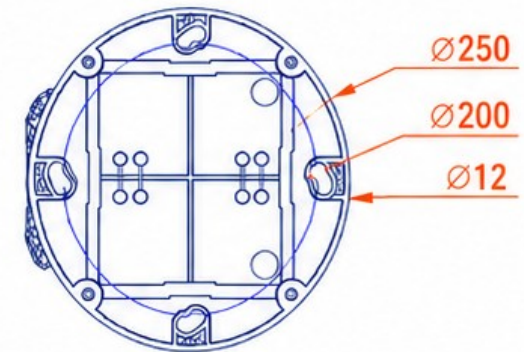
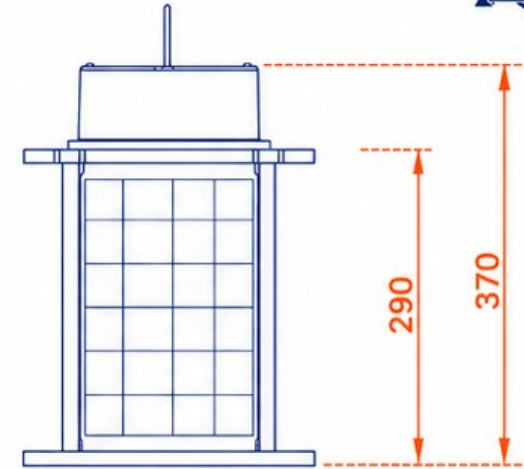
Regulations	IALA E-200-1; CE
Warranty	2 years
Life Expectancy	100,000 hours

ELECTRICAL CHARACTERISTICS

Light Source	High Performance LED
Nominal Voltage	12 V
Battery	Standard 20Ah / Extended 30Ah
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 370 mm
Weight	Standard 5.8 kg / Extended 6.4 kg
Waterproofing	IP68
Temperature Range	-50°C to +60°C



DETAILS



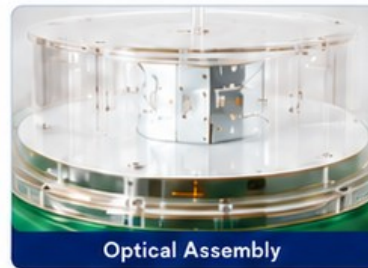
Color Option

Example of available housing color.



Top View

Top-mounted optical assembly.



Optical Assembly

Clear lens and LED optics.

PRODUCT CODE

Standard ASTRA-c-20Ah-GPS

Extended ASTRA-c-30Ah-GPS

c : color

