



# LED Solar Powered Marine Lanterns

**AH-LS-C**



This LED Marine Lanterns is completely self-contained lantern, adopting insert high efficient solar panels integrated design, cooperate with solar dedicated lithium ion battery as power supply.

It is full-sealed structure ensure(IP68) no water go inside. There is a ON/OFF button under base make local control easier.

### Compliance

- IALA E-200-1



### Features

#### Electrical

- Based on LED technology, and its color complies to IALA Recommendations E-200-1.
- LED technology reduces maintenance time & costs

#### Physical

- Integrated design, enabling a rugged and completely waterproof seal capable of prolonged and deep immersion (IP68).
- PC housing, UV resistance, shockproof and corrosion proof.
- Bird deterrent spike
- Powder coated die casting aluminum base
- Built-in mono-crystalline silicon solar panel, conversion efficiency is better than poly-crystalline silicon

#### System design

- Built-in photocell for day/night operation(dusk to dawn operation)
- Flashing rate: 20FPM(Other flashes is optional)
- ON/OFF button interface located under base

#### Optional

- External battery charger
- Flashing rate optional
- IR Program
- GPS sync flashing
- IALA 256 light characters adjustable

### Application

- AH-LS-C Solar Marine Lantern is used on buoy, light house and any other off shore site for marine/river safe navigation.



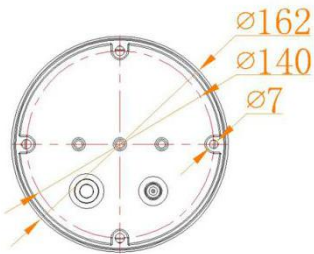
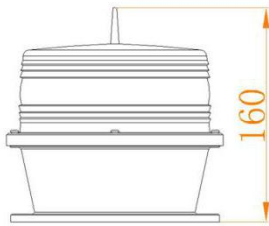
### APPLICATION



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## AH-LS-C

### Dimension



### Production Flow Chart



### SPECIFICATIONS

### AH-LS-C LED Solar Powered Marine Lanterns

#### Light Characteristics

Light Source	LED
Available Colors	Red, Green, Yellow, White, Blue
Visible Range(NM)	1-3 (AT@0.74)
Horizontal Output(degrees)	360
Vertical Divergence(degrees)	7
Flash Characteristics	FL3S(0.2,2.8) (others are optional)
Operation Mode	Dusk-to-dawn Automatically (Built-in photocell)
LED Life Experience(hours)	>100,000

#### Electrical Characteristics

Operating Voltage	3.7Vdc
Circuit Protection	Integrated

#### Solar Characteristics

Solar Module Type	Mono-crystalline Silicon
Output(watts)	1.8
Charging Regulation	Microprocessor controlled

#### Battery Characteristics

Battery type	Lithium ion battery
Nominal Voltage (V)	3.7
Battery Service Life	Average 3 years
Autonomy (hours)	Steady: 60 Flashing: 150(duty cycle:12%)

#### Physical Characteristics

Body Material	UV protected Polycarbonate
Base Material	Powder-coated Die-casting aluminum
Mounting(mm)	140×140-4×M6
Dimension(mm)	162×162×160
Weight(kg)	1
Product Life Expectancy	Average 5 years

#### Environmental Factors

Humidity	0~100%
Wind Speed	80m/s
Waterproof	IP68

#### Compliance

IALA	Signal colors complying to IALA E-200-1
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#### Options Available

Charging port
Flashing rate
IR Program
GPS sync flashing