

# LED Solar Powered Marine Lanterns

## AH-LS/C-6-1



This LED Marine Lanterns is completely self-contained lantern. Four (4) solar panels are integrated into the assembly and mounted to collect sunlight at all angles.

CREE Ultra high intensity LED is used as light source which make performance better. There is two rotatory switch on PCB, user could change the light flashing characteristics(IALA 256 flashes) easily.

GSM Monitoring as optional function, when fault happens, it will send out text message automatically.



### 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

- PC housing, UV resistance, shockproof and corrosion proof.
- Bird deterrent spike
- Powder coated die casting aluminum base
- 4-side mono crystalline silicon solar panel, conversion efficiency is better than poly crystalline silicon
- ON/OFF button interface

#### System design

- Solar panel as photocell for day/night operation(dusk to dawn)
- Equipped with rotary switches for adjust 256 kinds of flashing rate comply with IALA

#### Optional

- User-adjustable operation mode to toggle between dusk-till-dawn & 24hr operation
- External charger
- GSM Monitoring
- RS232 485 port
- GPS Sync flashing
- Bluetooth remote control

### Application

- AH-LS/C-6-1 Solar Marine Lantern is used on buoy, light house and any other off shore site for marine/river safe navigation.



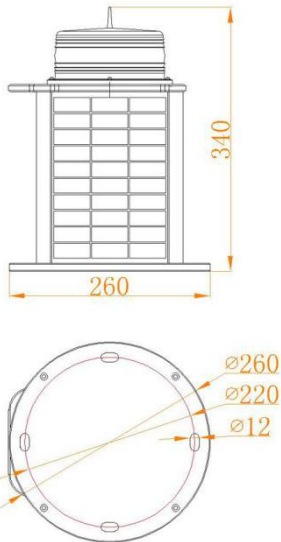
### APPLICATION



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## AH-LS/C-6-1

### Dimension



### Production Flow Chart



### SPECIFICATIONS

### AH-LS/C-6-1 LED Solar Powered Marine Lanterns

#### Light Characteristics

Light Source	LED
Available Colors	Red, Green, Yellow, White, Blue
Visible Range(NM)	5-8nm (AT@0.74)
Horizontal Output(degrees)	360
Vertical Divergence(degrees)	7
Flash Characteristics	Adjustable 256 IALA light characteristics
Operation Mode	Dusk-to-dawn Automatically (Built-in photocell)
LED Life Experience(hours)	>100,000

#### Electrical Characteristics

Operating Voltage	12Vdc
Circuit Protection	Integrated

#### Solar Characteristics

Solar Module Type	Mono crystalline Silicon
Output(watts)	24
Charging Regulation	Microprocessor controlled

#### Battery Characteristics

Battery type	Valve-Regulated Lead Acid Battery
Battery Capacity (Ah)	Depends on different visible range
Nominal Voltage (V)	12
Battery Service Life	Average 3 years

#### Physical Characteristics

Body Material	UV protected Polycarbonate
Base Material	Powder-coated Die-casting aluminum
Mounting(mm)	260×260×Φ12
Dimension(mm)	260×260×340
Weight(kg)	9
Product Life Expectancy	Average 5 years

#### Environmental Factors

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

#### Compliance

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

GSM Monitoring
RS232 485 port
GPS Sync flashing
Charging port
Bluetooth Remote Control