



LED Solar Powered Marine Lanterns

AH-ML-S7

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 no need to open the light, the light flashing characteristics(IALA 256 flashes) could be remote controlled by IR Programmer 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
- Bird spike could avoid the bird stop on the light

System design

- Solar panel as photocell for day/night operation(dusk to dawn)
- The flashing rate is adjust by IR programmer

Optional

- External battery charger
- GSM Monitoring
- RS232/485 port
- GPS Sync flashing

Application

- AH-ML-S7 Solar Marine Lantern is used on buoy, light house and any other off shore site for marine/river safe navigation.

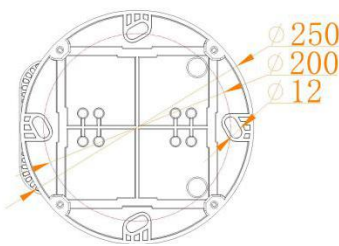
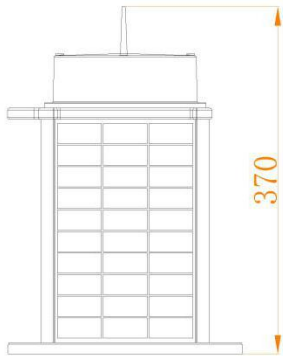
APPLICATION



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AH-ML-S7

Dimension(mm)



SPECIFICATIONS

AH-ML-S7 LED Solar Powered Marine Lanterns

Light Characteristics

| | |
|------------------------------|---|
| Light Source | LED |
| Available Colors | Red, Green, Yellow, White, Blue |
| Visible Range(NM) | 3-7m (AT@0.74) |
| Horizontal Output(degrees) | 360 |
| Vertical Divergence(degrees) | 8 |
| 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 | 11.1Vdc |
| Circuit Protection | Integrated |

Solar Characteristics

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

Battery Characteristics

| | |
|-----------------------|---|
| Battery type | Lithium ion battery(other type is optional) |
| Battery Capacity (Ah) | Depends on different visible range |
| Nominal Voltage (V) | 12 |
| Battery Service Life | Average 3-5 years |

Physical Characteristics

| | |
|-------------------------|------------------------------------|
| Body Material | UV protected Polycarbonate |
| Base Material | Powder-coated Die-casting aluminum |
| Mounting(mm) | 200×200×Φ12 |
| Dimension(mm) | 250×250×370 |
| Weight(kg) | 7 |
| Product Life Expectancy | ≥ 10 years |

Environmental Factors

| | |
|-----------------|--------|
| Humidity | 0~100% |
| Wind Speed | 80m/s |
| Waterproof | IP68 |
| Temperature(°C) | -20~80 |

Compliance

| | |
|------|---|
| IALA | Signal colors compliant to IALA E-200-1 |
|------|---|

Options Available

| |
|-------------------|
| GSM Monitoring |
| RS232/485 port |
| GPS Sync flashing |
| Charging port |