HB30-M LED Solar Powered Masthead Light (225 Degree)

Description:
Our innovative HB30-M Led Solar powered masthead light is the perfect solution for your marine lighting needs. This state-of-the-art masthead light is designed to provide reliable and efficient illumination for your boat while being environmentally friendly and energy saving.

The fixture harnesses the power of the sun to charge its built-in batteries, making it a sustainable and cost-effective lighting option for your vessel. With its advanced solar panel technology, this masthead light can effectively capture and convert sunlight into energy, ensuring that your boat stays well-lit throughout the night without the need for external power sources.

Crafted with high-quality materials, this masthead light is durable and weather-resistant, making it suitable for any marine environment. Its sleek and compact design makes it easy to install and maintain, and its low power consumption ensures long-lasting performance. The bright LED light is highly visible and meets all marine standards, providing safety and navigation assistance for you and other boaters.

It is also equipped with automatic dusk to dawn sensors, so you can rely on it to turn on and off as needed, without having to manually operate it. This feature not only adds to the convenience of using the light but also ensures that it conserves energy and operates efficiently.

Major functions & features
- 8 pcs of ultra-bright LEDs, reliable light source ensures long lifespan
- Compliant to IALA Recommendations E-200-1
- Integrated high-performance solar panel /battery system
- >2.5NM visible range
- Integrated MPPT (Maximized Power Point Tracking) for maximizing sunlight collection
- Automatic night activation
- Integrated SBM (Smart Battery Management) for saving energy to extend autonomy
- Fresnel optical lens provides excellent light distribution
- Lens made from durable, UV-stabilized LEXAN polycarbonate
- Aluminum base with powder painted, corrosion-resistant
- Autonomy up to 10 days once fully charged during insufficient sunlight days
- Automatically off after being packed for 18 hours
- Protective vent for expelling battery gas and reduce condensation
- Bird spike against birds landing and nesting
- No regular maintenance
- Excellent shock and vibration resistant
- IP67 ON-OFF switch for protecting the battery from over-discharging
- Stainless steel safety rope protects light head from fall-off during maintenance
- Installs in seconds
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## Specifications:

<table>
<thead>
<tr>
<th>Item</th>
<th>HB30-M</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELECTRICAL CHARACTERISTIC</strong></td>
<td></td>
</tr>
<tr>
<td>Visible distance</td>
<td>&gt;2.5nm</td>
</tr>
<tr>
<td>Vertical Divergence</td>
<td>±7.5 Degree</td>
</tr>
<tr>
<td>Horizontal Divergence</td>
<td>225 degree</td>
</tr>
<tr>
<td>LED Color</td>
<td>White</td>
</tr>
<tr>
<td>LED Lifespan</td>
<td>100,000 Hours</td>
</tr>
<tr>
<td><strong>OPERATION</strong></td>
<td></td>
</tr>
<tr>
<td>Woke mode</td>
<td>steady burning</td>
</tr>
<tr>
<td>Photocell sensitivity</td>
<td>70-100 Lux</td>
</tr>
<tr>
<td>Autonomy</td>
<td>10 days(steady burning)</td>
</tr>
<tr>
<td><strong>POWER SUPPLY</strong></td>
<td></td>
</tr>
<tr>
<td>Solar panel</td>
<td>Solar module, mono-crystalline silicon 5V 1.8W</td>
</tr>
<tr>
<td>Solar Efficiency</td>
<td>21%</td>
</tr>
<tr>
<td>Battery capacity</td>
<td>NIMH, 3.6V/8Ah</td>
</tr>
<tr>
<td>Battery replacement</td>
<td>Replaceable</td>
</tr>
<tr>
<td><strong>MECHANICAL STRUCTURE</strong></td>
<td></td>
</tr>
<tr>
<td>Lens</td>
<td>Polycarbonate, UV Stabilize</td>
</tr>
<tr>
<td>Body</td>
<td>Aviation yellow powder-coated extruding aluminum</td>
</tr>
<tr>
<td>IP Ingress</td>
<td>IP67</td>
</tr>
<tr>
<td>Weight</td>
<td>2KG(Polycarbonate base)</td>
</tr>
<tr>
<td></td>
<td>3KG(Aluminum base)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-30°C ~ +55°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40°C ~ +55°C</td>
</tr>
<tr>
<td>Suitable areas:</td>
<td>PSH≥3</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>0-95% RH non-condensing</td>
</tr>
<tr>
<td>Wind speed</td>
<td>Up to 150mph(240kph)</td>
</tr>
<tr>
<td>Atmospheric Transparency Coefficient</td>
<td>0.85</td>
</tr>
<tr>
<td><strong>OTHERS</strong></td>
<td></td>
</tr>
<tr>
<td>Warranty</td>
<td>2 years</td>
</tr>
</tbody>
</table>
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**Advantage:**

- High efficient solar panel (5V1.8W)
- Transparent Anti UV PC housing
- Water-resistance ON/OFF switch and protective housing
- Bird spike
- Anti-drop chain
- Anti-drop screws
- Preventive vent for balancing pressure and reducing condensation
- Water-resistance ON/OFF switch
- Air Vent valve
- GPS Synchronization Function (optional)
- 3.6VBAH NIMH Battery
- Dip switch for fixed and flashing changeable
- With Remote controller (optional)

**Colors:**

- **GREEN** (112.5°)
- **YELLOW** (225°)
- **RED** (112.5°)
- **WHITE** (135°)

(Yellow required for inland waters)
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### Mounting dimension (mm)

![Diagram showing the mounting dimensions.]

### Installation

1. Mount the solar light in the most suitable place such as under direct sunlight, to ensure its continuous operation. If there is no mounting surface, we can customize special mounting bracket as request.
2. When first operation, if the solar does not light up in dark places, please put the light under direct sunlight for approx. 12hrs.
3. Use 4XM8 screws to fix the light base on the smooth place.
4. Adjust the dip switch on the light base to ON position, the light will start to work (ensure the light is in dark place or use a black cloth to cover the solar panel if in the daytime).

### Installation positions for different types of ships:

![Diagram showing installation positions for different types of ships.]

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Operation
In daylight, the solar panel charges the battery using the Energy Management System (EMS). The capacity of the battery ensures that even with poor levels of sunlight over an extended period, the lantern has enough reserve power to continue to perform reliably. Stored battery energy then powers the LED during the night.

Storage:
When put the lamp into the warehouse for storage, turn the lamp off. Check the battery state and it is better to charge the battery every 3 months.

Test
① Adjust the self-locking switch to “ON” position on the lamp base, the lamp will turn on; and to the “OFF” position, it will turn off when you check the lamp.
② Remember to cover solar panels during the day if want the lamp to work.
③ If the lamp has GPS function, the fixture need to be kept in an open area outside and the GPS function will work after 5-10 minutes.

Maintenance
Although the Solar Obstruction Light is maintenance-free, if want the lamp to work more efficiently, please use a soft sponge or cloth to clean the solar panel regularly. A mild non-abrasive cleanser can be used for more stubborn residue. Clean more frequently during drier months as dust accumulates more quickly. Check the exterior for cracks, missing or broken hardware.

Recycling
This product may contain substances that could be harmful to the environment or human health if improperly handled at the product’s end of life. Check your local municipality for electronics recycles. The batteries are rechargeable Lithium batteries. Consult your local laws for information on recycling
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Applications:
- Navigation aids
- Port, dock entrance walkway
- Buoy marking
- Offshore gas & oil platform
- Yacht Clubs
- Boat Houses
- Piers
- Safety & Hazard Prevention
- Barge Lights
- Mooring Lights
- Bridges
- Oil Boom Lights

Precautions:
- The part of material of products is PC (like lamp cover and lamp shell), so it cannot direct or indirect touch the organic solvent, such as industrial alcohol, banana oil, isopropyl alcohol, carbon tetrachloride, cyclohexanone and so on, otherwise, the product will be corrosion.
- Please read the instruction manual carefully before operation.
- For protection of batteries during transport and storage, adjust the dip switch on the light base to “OFF” position.
- Built in NiMH battery, after being used 450 times (15 months), the battery capacity is approx. 80% of previous capacities, at this moment, please replace the battery in time.
- Please make sure that the ambient temperature conditions should match this product. Otherwise, it will not work properly.
- Please do not look light horizontally to protect your eyes while the light working.
- The flash rate 40FPM by default. If you need to customize, please inform the lamp manufacturer before purchasing.
- This product is a sealed structure; should not be tampered with by anyone other than professional. Otherwise, the company will not guarantee.

How to charge battery (see below):
If store the light for more than 3 months in your warehouse, then the light battery needs to be charged, there are total two methods to charge the battery:
① Open the box and take out the light, and put the light under the sunlight directly, and open the battery switch, charge the battery by sun energy for more than 10 hrs. Turn off the battery switch after a full charge.
② Open the box, take out the battery, use a charger (4.2v-5V) and connect with the battery (note +/-), and charge the battery for 2-3 hrs
③ After finishing the charging, assemble the light. Note the seal ring to waterproof.
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BATTERY CHARGING IF NECESSARY:

**Option 1:** Put the light under sunlight

1. Open the cover
2. Put the dip switch to “ON” position
3. Close the cover, and put the light under sunlight

**Option 2:** Use a Charger (around 4.2v-5v) such as switching power supply etc

1. Open the back cover (take care of the seal ring)
2. Take out of the battery
3. Find a suitable charger (4.2v-5V) and connect with the battery (note +/-), and charge the battery for 2-3 hrs
4. After finishing the charging, assemble the light. Note to fasten the seal ring very well