



Solar Marine Lights Product Line

International Association of Marine Aids to Navigation and Lighthouse

Authorities set requirements for lighting equipment used to to meet various requirements of lighting and signal for ship or marine drilling platform.

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About us

Lansing Electronics, based in Shanghai, China, is a high-tech company engaged in LED outdoor light R&D, manufacturing and marketing. The company has built a reputation for delivering top quality LED Outdoor Lightings with outstanding reliability and top performance since 2009.

We have a Complete Industrial LED Lighting Solutions, and our main product included aviation obstruction lights, solar marine lights and airport lights etc. They are manufactured using superior quality raw material which is sourced from the most reliable vendors of the market. Meanwhile, the entire products are designed and fabricated by our expert professionals, who have strong technical and business skills to perform their assigned tasks. With the support of modern infrastructure and well qualified team, we are able to provide customized lighting products in the market. Satisfying the client's precise needs has been our foremost priority and we have formulated competitive price policy to meet this objective. We at "Lansing" Believe in strengthen our Team & resources and detail R&D engineering which enable us to know how to work with attention on the quality of details, customized solutions, customer care and support. Our offered products are extensively used in telecommunications, airports, helipads, utilities, navigation lighting, wind turbine, cranes, masts, power lines, tall buildings, bridges, stacks, weather masts, and cell sites. We have regular and long-term customers from more than 70 countries in the world, such as United States, Canada, United Kingdom, Germany, Russia, France, Italy, Australia, Japan, South Korea, Singapore, Philippines, Thailand, Mexico, Chile and so on.

There are many outstanding features that define Lansing brand: Customized solutions, reliability, Performance, Quality with Competitive price. This defines our USP (unique selling proposition).

Our goal

LANSING focus on R&D and dedicate to provide state-of-the-art product for our customer.

Our advantage

Deep understanding on technologies that our product require Absolutely following rules & regulations in the industry we are serving.

Our value

- Dedication
- Candor
- Eager for action
- Continuous change

Introduction

LED Marine Light is a kind of traffic light and can not only be used for lighting and navigation but also be applied for signal transmission. They are high-quality lighting fixtures that are specifically designed to withstand the harsh marine environment, including saltwater, humidity, and extreme weather conditions and are engineered to resist corrosion, rust, and UV degradation. The design and manufacturing of the marine lighting must be in line with the relevant provisions of the ship norms and the international conventions.

Regulations

- IALA is the major international authorities that regulate marine light industry.
- IALA – International Association of Marine Aids to Navigation and Lighthouse Authorities

Vessels are required to show the proper navigation lights from sunset to sunrise in all weather conditions, good and bad. During these times, no other lights that could be mistaken for lights specified in the Rules of the Road can be displayed, nor any lights that impair the visibility or distinctive character of navigation lights, or interfere with the keeping of a proper lookout. The Rules also state that navigation lights must be shown in conditions of reduced visibility, and may be shown at other times considered necessary





Regulation	2	About us
	3	Introduction
	4	contents
	5	HB30 Led Solar Powered Marine Light (2.5nm)
	7	HB32 Led Solar Powered Marine Light (3-4nm)
	10	HB30-RF Led Solar Powered Marine Light with remote controller(2.5nm)
	13	HB30-E LED Solar Powered Stern Light (2.5nm)
	16	HB30-F LED Solar Powered Side Light (2.5nm)
	19	HB30-M LED Solar Powered Masthead Light (2.5nm)
	22	HB02 Solar Powered Marine Light(2.5nm)
	25	HB05 Solar Powered Marine Light
	27	HB06 Solar Powered Marine Light
	29	HB20 Solar Powered Marine Light(2nm)
	31	HB50 LED Solar Powered Marine Light(5-7nm)
	33	HB50-RF LED Solar Powered Marine Light with remote controller(5-7nm)
	36	HB60 LED Solar Powered Marine Light(3-5nm)
	39	HB60-RF LED Solar Powered Marine Light with remote controller (3-5nm)
	42	HB80 LED Solar Powered Marine Light(7-10nm)
	45	HB80-RF LED Solar Powered Marine Light with Remote Controller(7-10nm)
	48	GL10 LED Marine Light(2.5nm)
	51	GL32 LED Marine Light(3-5nm)
	54	GL50 LED Marine Light(5-7nm)
	57	GL100 LED Marine Light(10nm)
	60	EX-HB20 Explosion proof Solar Powered Marine Light(5-7NM)
	63	EX-HB40 Explosion proof Solar Powered Marine Light(7-10NM)
	67	EX-RB10 Explosion proof LED Marine Light(3-5NM)
	71	EX-RB20 Explosion proof LED Marine Light(5-7NM)
	75	EX-RB40 Explosion proof LED Marine Light(7-10NM)
	79	Applications

Description:

HB30 LED Solar marine light has become the most classical solar-powered LED Light in the field of marine aid to navigation around the world. Because of its self-contained, reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance or servicing for up to five years. It complies with IALA-AISM's requirements.

The LED marine light is one of the most advanced in its class, and incorporates a host of innovative features designed to make the unit extremely user-friendly.

The world-class LED lens is designed by Lansing and achieves precise intensity and sectoring requirements from a single LED light source.

The unit has a high-performance solar panel mounted on the top of light, which maximize solar collection and provide reliable operation in a range of environmental conditions. And it is equipped with an 8Ah NiMH rechargeable battery which could power the light up to 20 days when the weather is cloudy & rainy.

The fixture integrates an internal photodiode for automatic night activation once the ambient light threshold drops sufficiently. HB30 is also available with an optional on/off switch for storing and protect battery from over-discharging. Robust aluminum body with powder coating provides excellent protection against harsh environments.

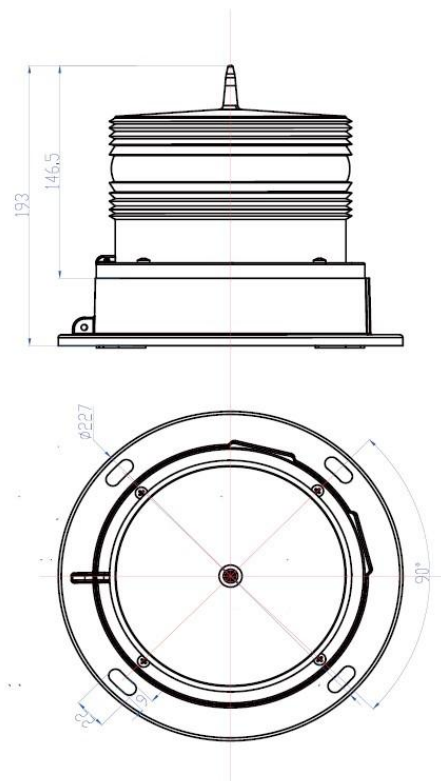
Major functions & features

- 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 20 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
- Dip switch for fixed type to flashing changeable
- Optional GPS synchronization function



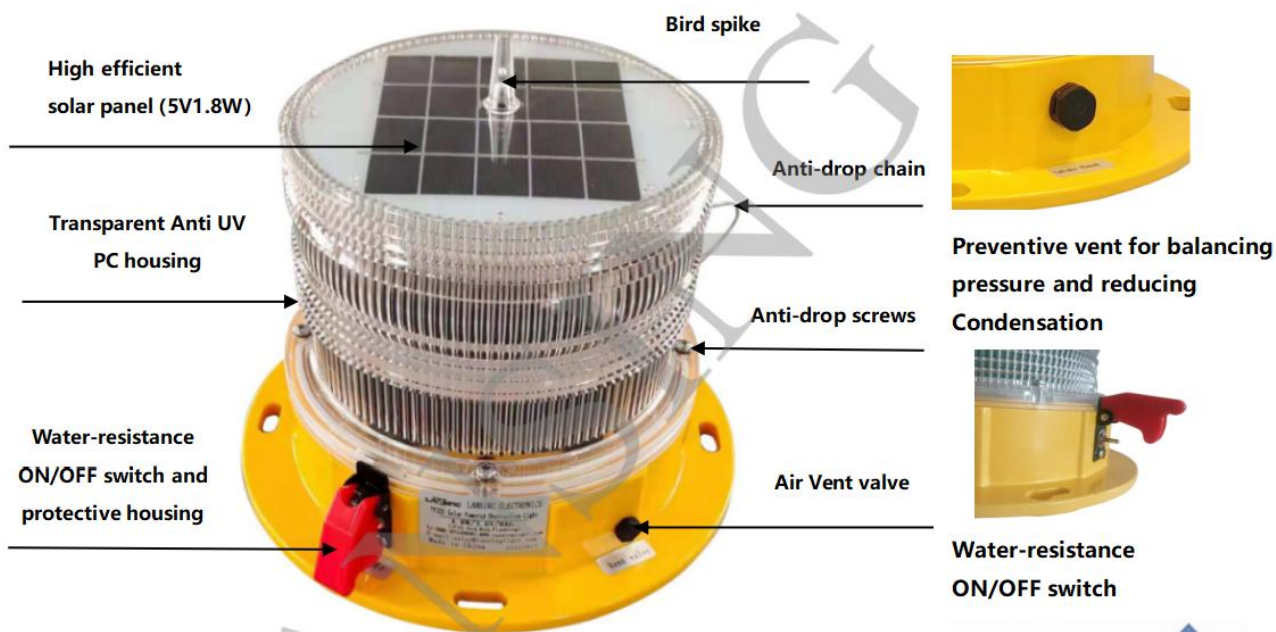
Specifications:

Item		HB30
ELECTRICAL CHARACTERISTIC	Visible distance	>2.5nm
	Vertical Divergence	± 7.5 Degree
	Horizontal Divergence	360 Degree or 112 degree
	LED Color	Red ,White, yellow, green or blue
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern (optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
	Autonomy	20 days(flashing), 10 days(steady burning)
	Alarm type:	NO & NC, dry contact relay(optional)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 5V 1.8W
	Solar Efficiency	21%
	Battery capacity	NIMH, 3.6V/8Ah
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP67
	Weight	2KG(Polycarbonate base) 3KG(Aluminum base)
	Operating Temperature	-30°C ~ +55°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	PSH≥3
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
	Atmospheric Transparency Coefficient	0.85
OTHERS	Warranty	2 years

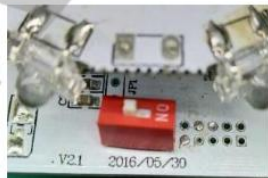


Mounting dimension(mm)

Advantage:



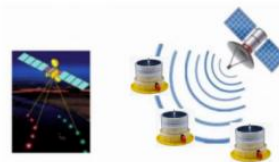
3.6V8AH NIMH Battery



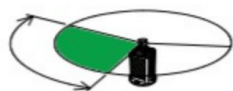
Dip switch for fixed and flashing changeable



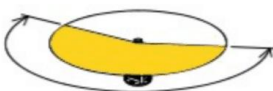
With Remote controller(Optional)



GPS Synchronization Function (optional)



GREEN (112.5°)



YELLOW (225°)

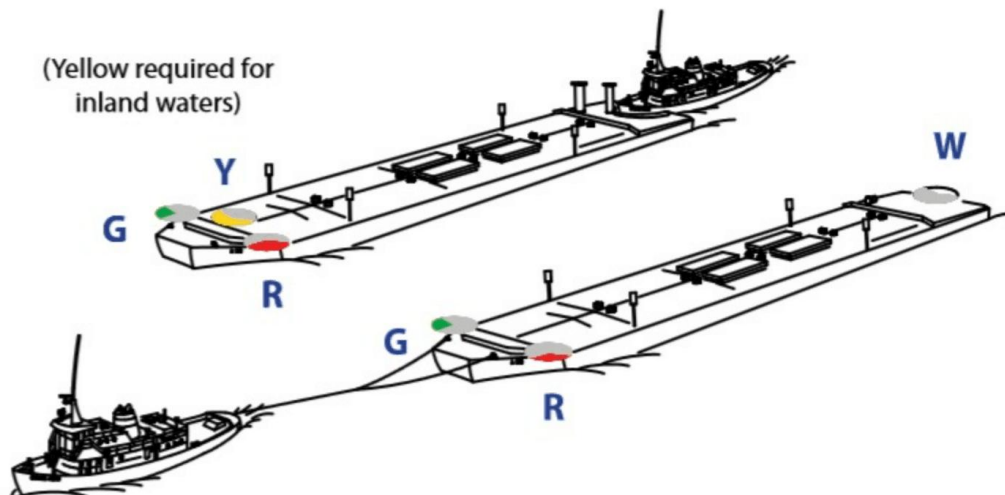


RED (112.5°)



WHITE (135°)

(Yellow required for inland waters)



Description:

HB32 LED Solar marine light has become the most classical solar-powered LED Light in the field of marine aid to navigation around the world. Because of its self-contained, reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance or servicing for up to five years. It complies with IALA-AISM's requirements.

The LED marine light is one of the most advanced in its class, and incorporates a host of innovative features designed to make the unit extremely user-friendly.

The world-class LED lens is designed by Lansing and achieves precise intensity and sectoring requirements from a single LED light source.

The unit has a high-performance solar panel mounted on the top of light, which maximize solar collection and provide reliable operation in a range of environmental conditions. And it is equipped with an 8Ah NiMH rechargeable battery which could power the light up to 15 days when the weather is cloudy & rainy.

The fixture integrates an internal photodiode for automatic night activation once the ambient light threshold drops sufficiently. HB32 is also available with an optional on/off switch for storing and protect battery from over-discharging. Robust aluminum body with powder coating provides excellent protection against harsh environments.

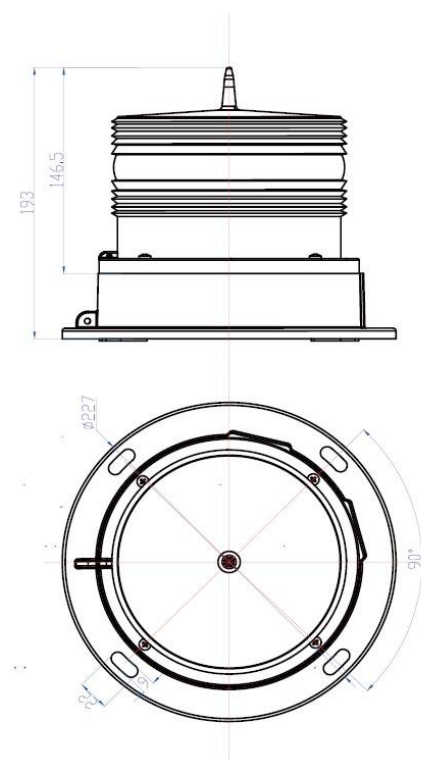
Major functions & features

- 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
- >3-4NM 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 15 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
- Dip switch for fixed type to flashing changeable
- Optional GPS synchronization function



Specifications:

Item		HB32
ELECTRICAL CHARACTERISTIC	Visible distance	>3-4nm
	Vertical Divergence	10 Degree
	Horizontal out-put	360 Degree or 112 degree
	LED Color	Red (for obstruction). White, yellow, green and blue are available for other applications
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
	Autonomy	15 days(flashing), 3-4 days(steady burning)
	Alarm type:	NO & NC, dry contact relay(optional)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 5V 4.8W
	Solar Efficiency	21%
	Battery capacity	NIMH, 3.6V/8Ah
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP67
	Weight	2KG(Polycarbonate base) 3KG(Aluminum base)
	Operating Temperature	-30°C ~ +55°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	PSH≥3
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
OTHERS	Warranty	2 years



Mounting dimension(mm)

Advantage:

Bird spike

High efficient solar panel (5V1.8W)

Transparent Anti UV PC housing

Water-resistance ON/OFF switch and protective housing

Anti-drop chain

Anti-drop screws

Air Vent valve

Preventive vent for balancing pressure and reducing Condensation

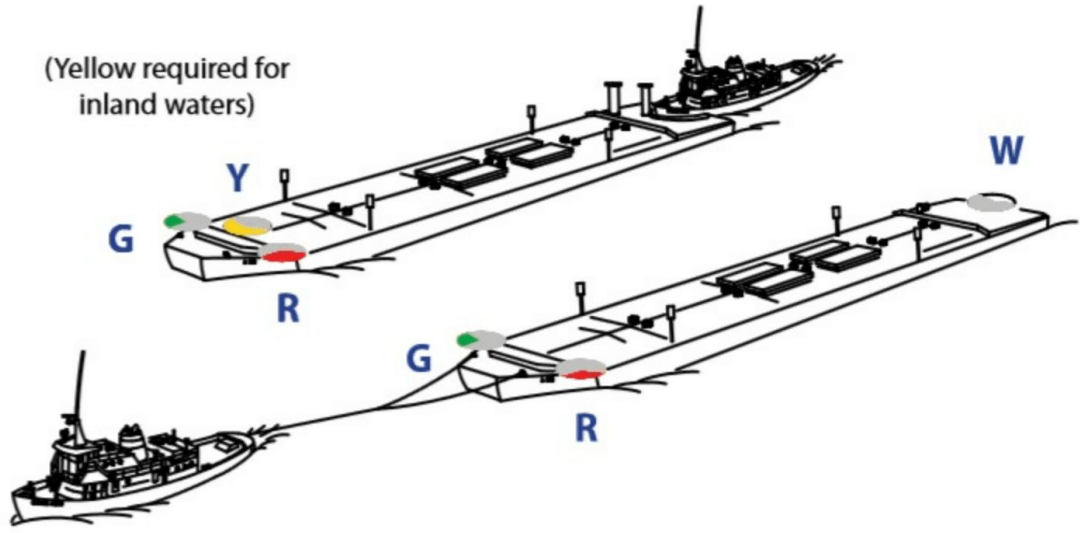
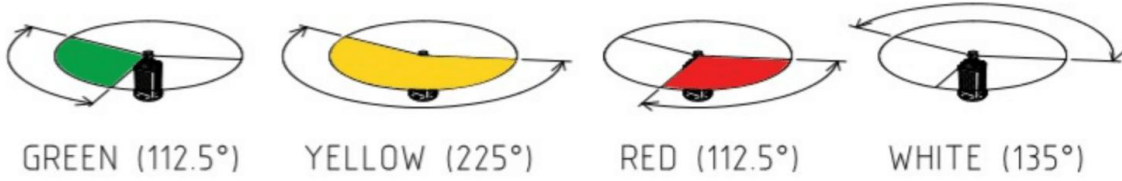
Water-resistance ON/OFF switch

3.6V8AH NIMH Battery

Dip switch for fixed and flashing changeable

With Remote controller(Optional)

GPS Synchronization Function (optional)



Description:

HB30-RF LED Solar marine light has become the most classical solar-powered LED Light in the field of marine aid to navigation around the world. Because of its self-contained, reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance or servicing for up to five years. It complies with IALA-AISM's requirements.

The fixture is equipped with a remote controller, which can make the light having 256 kinds of flashing rate.

The world-class LED lens is designed by Lansing and achieves precise intensity and sectoring requirements from a single LED light source.

The unit has a high-performance solar panel mounted on the top of light, which maximize solar collection and provide reliable operation in a range of environmental conditions. And it is equipped with an 8Ah NiMH rechargeable battery which could power the light up to 20 days when the weather is cloudy & rainy.

The fixture integrates an internal photodiode for automatic night activation once the ambient light threshold drops sufficiently. HB30-RF is also available with an optional on/off switch for storing and protect battery from over-discharging. Robust aluminum body with powder coating provides excellent protection against harsh environments.

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
- 256 kinds of flashing pattern
- 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 20 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
- Dip switch for fixed type to flashing changeable
- Optional GPS synchronization function

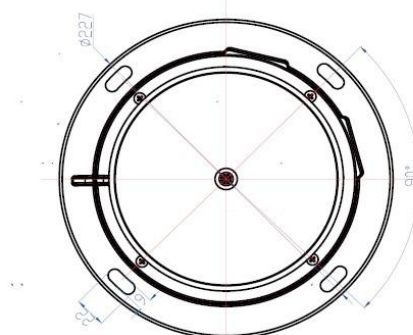
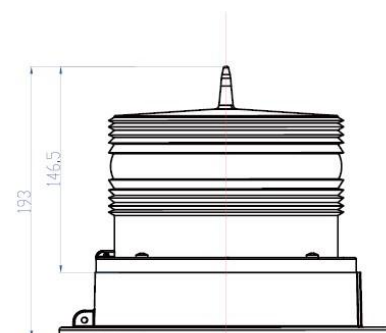


Specifications:

	Item	HB30-RF
ELECTRICAL CHARACTERISTIC	Visible distance	>2.5nm
	Vertical Divergence	±7.5 Degree
	Horizontal out-put	360 Degree or 112 degree
	LED Color	Red (for obstruction). White, yellow, green and blue are available for other applications
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
	Autonomy	20 days(flashing), 10 days(steady burning)
	Alarm type:	NO & NC, dry contact relay(optional)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 5V 1.8W
	Solar Efficiency	21%
	Battery capacity	NIMH, 3.6V/8Ah
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP67
	Weight	2KG(Polycarbonate base) 3KG(Aluminum base)
	Operating Temperature	-30°C ~ +55°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	PSH≥3
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
	Atmospheric Transparency Coefficient	0.85
OTHERS	Warranty	2 years



Remote controller



Mounting dimension(mm)

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

Air Vent valve

Preventive vent for balancing pressure and reducing Condensation

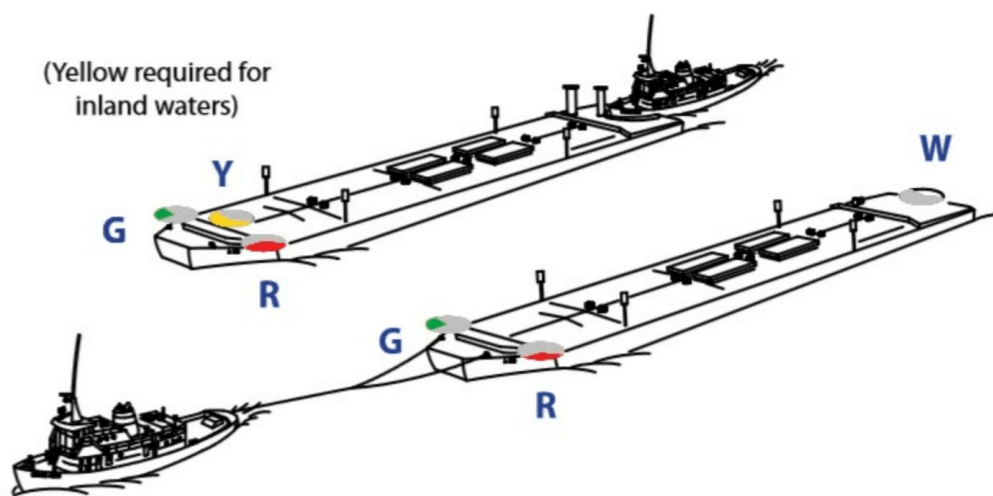
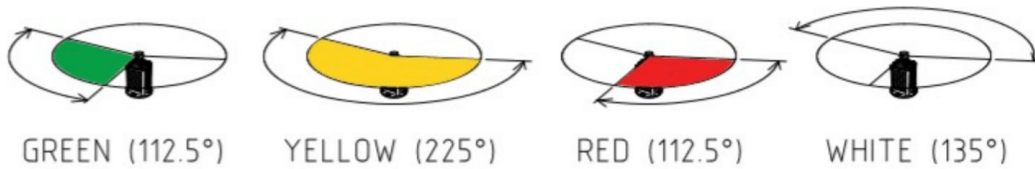
Water-resistance ON/OFF switch

3.6V8AH NIMH Battery

Dip switch for fixed and flashing changeable

With Remote controller(Optional)

GPS Synchronization Function (optional)



Description:

HB30-E LED Solar powered stern light is designed to provide reliable illumination for the stern of your boat, while also being environmentally friendly and cost-effective.

The light is equipped with high-efficiency solar panels, allowing it to harness the power of the sun and convert it into electricity to power the light. This means that there is no need for any wiring or external power source, making installation quick and hassle-free. Simply mount the light in a suitable location on your boat, ensure the solar panels are exposed to sunlight, and enjoy reliable illumination without any ongoing costs.

The convenience and ease of installation are just the beginning of the benefits that our solar powered stern light has to offer. It is also designed to be highly durable and weather-resistant, making it suitable for use in a marine environment. Whether you're out on the water during bright, sunny days or in less-than-ideal weather conditions, you can trust that this light will continue to function and provide the illumination you need for safe boating.

Our HB30-E solar powered stern light also boasts a sleek and modern design that will complement the look of any boat. Its low profile and unobtrusive appearance make it a seamless addition to your vessel, while still providing the necessary visibility for other boaters to see your boat at night or in low light conditions.

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
- Dip switch for fixed type to flashing changeable
- Optional GPS synchronization function

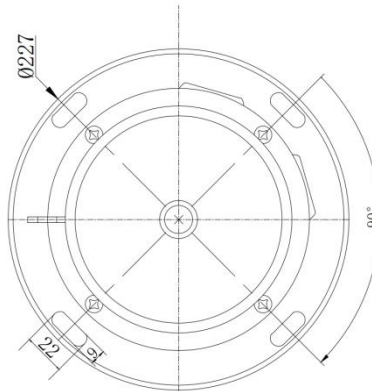
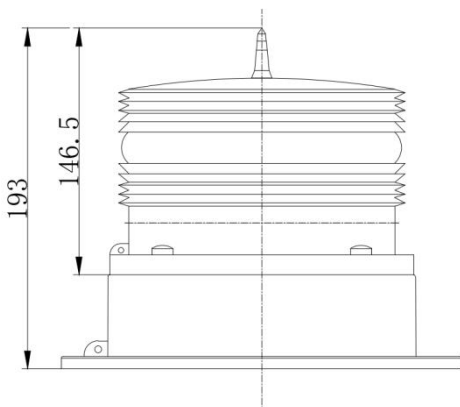


Specifications:

Item		HB30-E
ELECTRICAL CHARACTERISTIC	Visible distance	>2.5nm
	Vertical Divergence	± 7.5 Degree
	Horizontal Divergence	135 degree
	LED Color	White
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	steady burning
	Photocell sensitivity	70-100 Lux
	Autonomy	10 days(steady burning)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 5V 1.8W
	Solar Efficiency	21%
	Battery capacity	NIMH, 3.6V/8Ah
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP67
	Weight	2KG(Polycarbonate base) 3KG(Aluminum base)
	Operating Temperature	-30°C ~ +55°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	PSH≥3
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
	Atmospheric Transparency Coefficient	0.85
OTHERS	Warranty	2 years for light



Mounting dimension(mm)



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

Air Vent valve

Preventive vent for balancing pressure and reducing Condensation

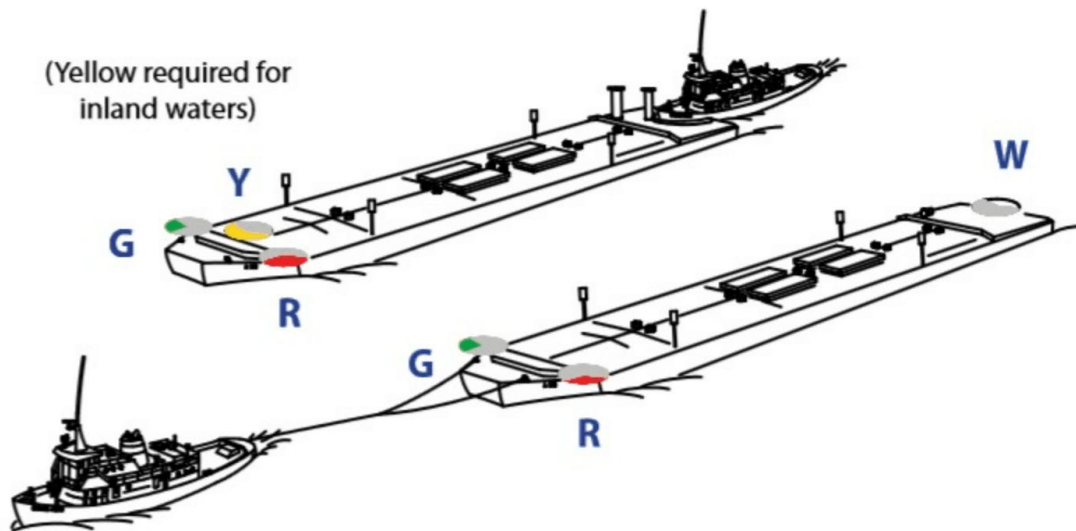
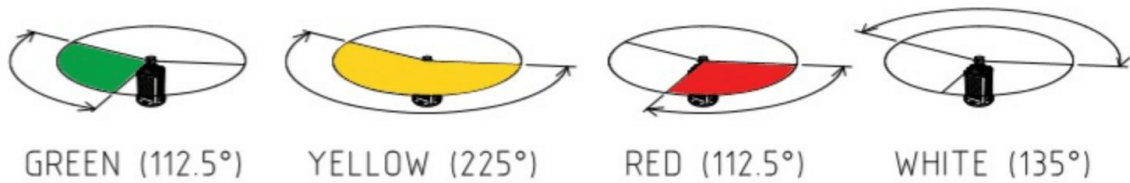
Water-resistance ON/OFF switch

3.6V8AH NIMH Battery

Dip switch for fixed and flashing changeable

With Remote controller(Optional)

GPS Synchronization Function (optional)



Description:

HB30-F sleek and durable solar powered masthead light is designed to provide reliable illumination for your boat's side, ensuring that you can navigate through the waters with confidence, even in the darkest of nights.

Our solar powered side light for boats harnesses the power of the sun to provide a sustainable and eco-friendly lighting solution for your vessel. With an integrated solar panel, this light automatically charges during the day, and then seamlessly illuminates your boat's side as soon as the sun sets. This means that you can enjoy uninterrupted light throughout the night without the need for any additional power source or batteries.

Crafted from high-quality materials, our solar powered side light is built to withstand the harsh marine environment. Whether you're sailing through rough waters or mooring in a busy marina, you can trust that this light will continue to shine brightly, providing essential visibility for your boat and ensuring that you are easily seen by other vessels.

Installation is quick and straightforward, with no wiring or complicated setup required. Simply mount the light onto the desired location on your boat, and let the sun take care of the rest. The low-profile and modern design of the light also adds a stylish touch to your boat's exterior, enhancing its overall appearance.

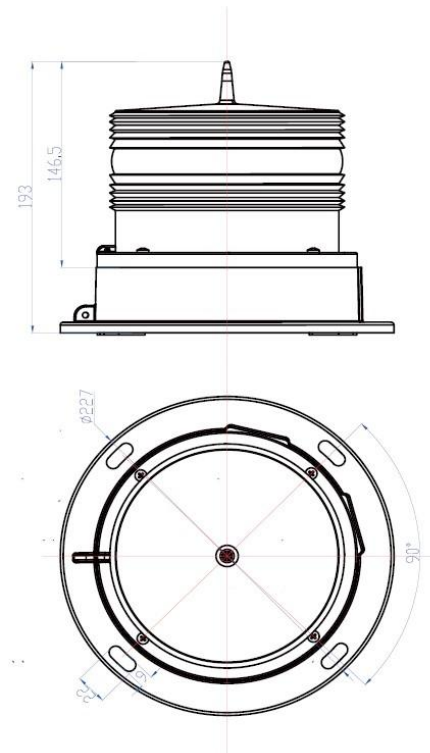
Major functions & features

- 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



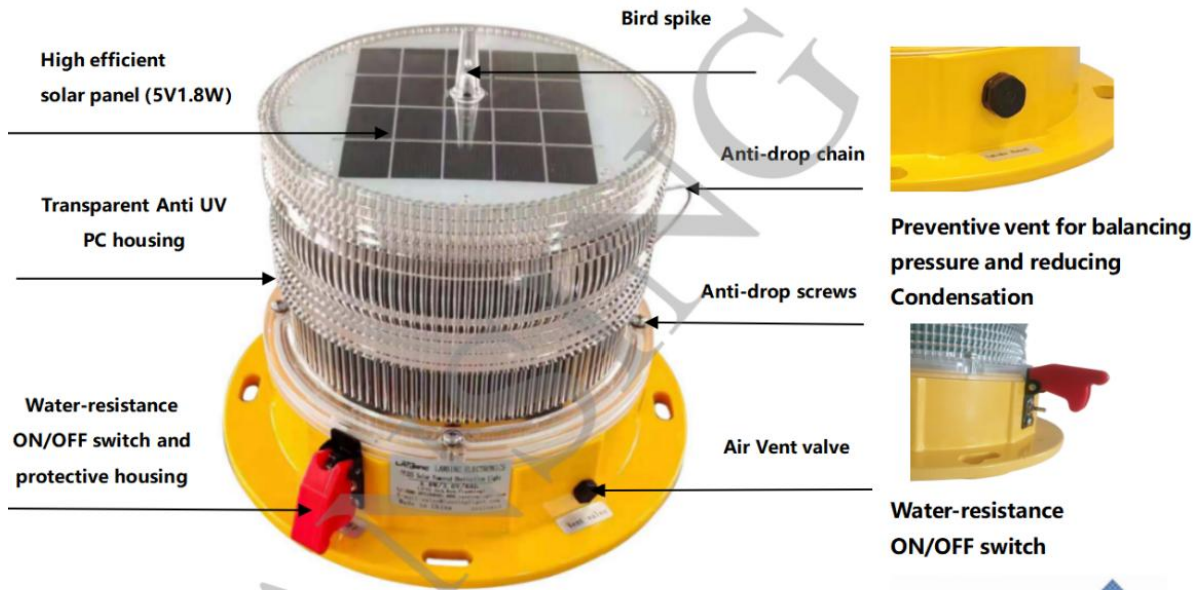
Specifications:

Item		HB30-F
ELECTRICAL CHARACTERISTIC	Visible distance	>2.5nm
	Vertical Divergence	± 7.5 Degree
	Horizontal Divergence	112.5 degree
	LED Color	Red or green
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	steady burning
	Photocell sensitivity	70-100 Lux
	Autonomy	10 days(steady burning)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 5V 1.8W
	Solar Efficiency	21%
	Battery capacity	NIMH, 3.6V/8Ah
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP67
	Weight	2KG(Polycarbonate base) 3KG(Aluminum base)
	Operating Temperature	-30°C ~ +55°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	PSH≥3
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
	Atmospheric Transparency Coefficient	0.85
OTHERS	Warranty	2 years



Mounting dimension(mm)

Advantage:



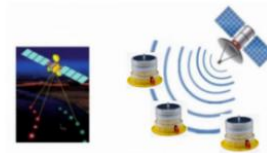
3.6V8AH NIMH Battery



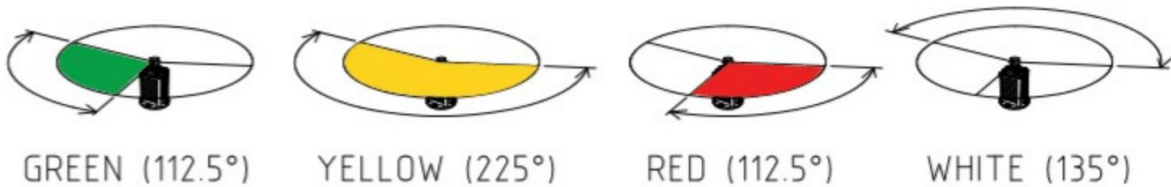
Dip switch for fixed and flashing changeable



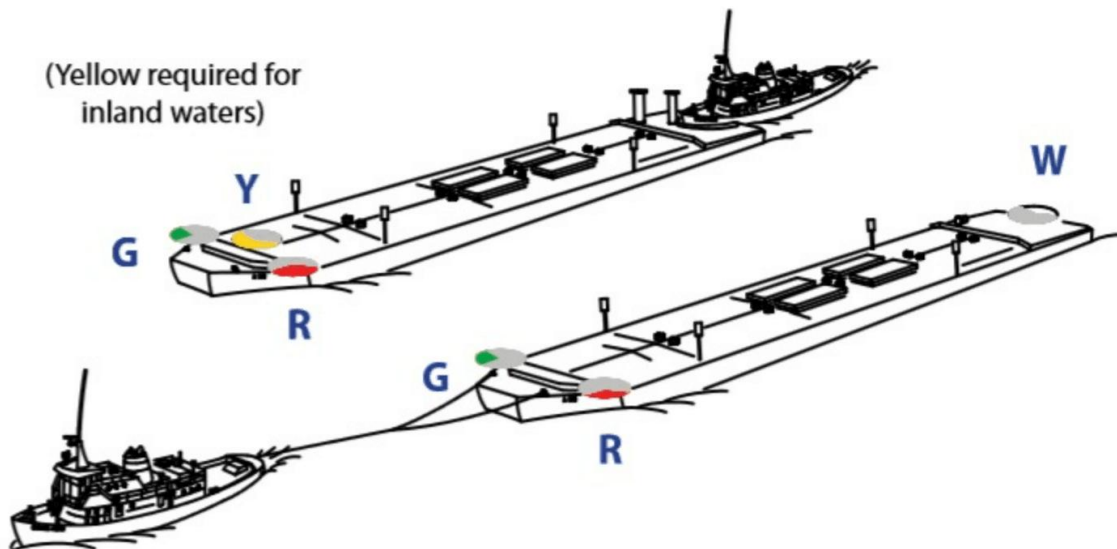
With Remote controller(Optional)



GPS Synchronization Function (optional)



(Yellow required for inland waters)



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.

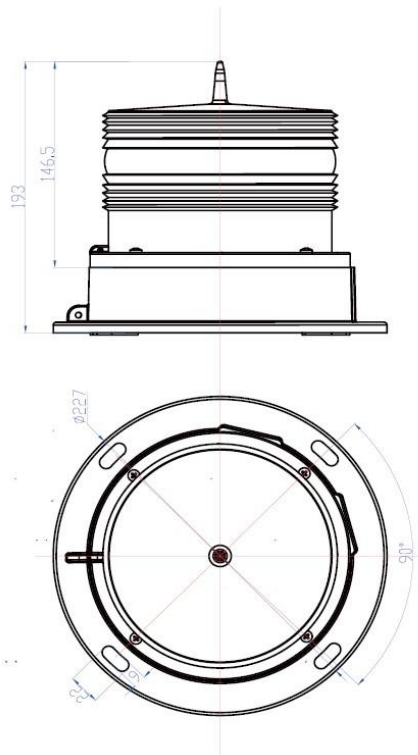
Major functions & features

- 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



Specifications:

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



Mounting dimension(mm)

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

Air Vent valve

Preventive vent for balancing pressure and reducing Condensation

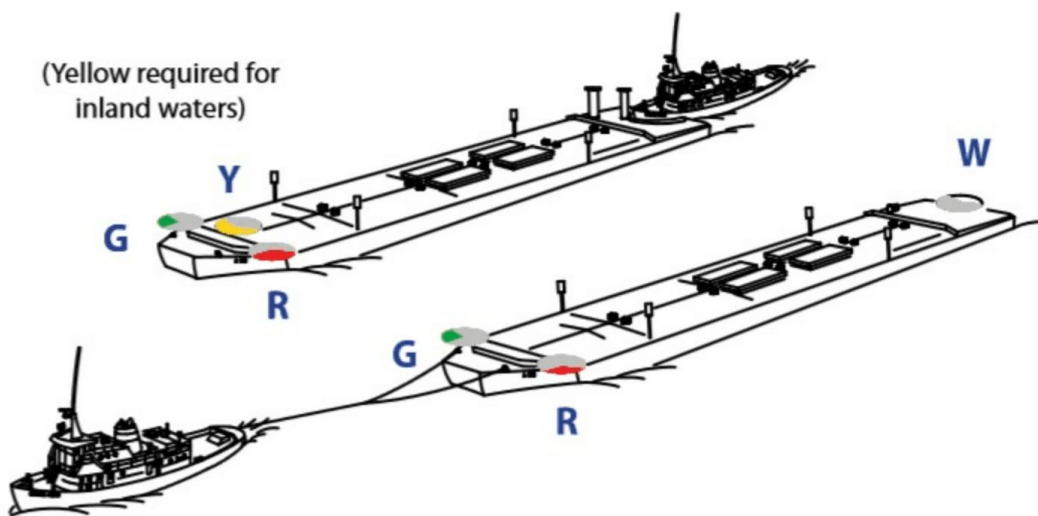
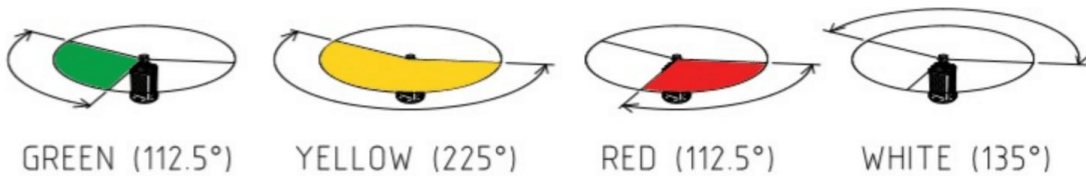
Water-resistance ON/OFF switch

3.6V8AH NIMH Battery

Dip switch for fixed and flashing changeable

With Remote controller(Optional)

GPS Synchronization Function (optional)



Description:

HB02 is a heavy-duty solar navigation light providing 360 degrees of lighting, for identifying docks, navigation aides or obstructions at night. It is also can be used as warning light to control traffic.HB02 has become the most classical solar-powered LED Light in the field of marine aid to navigation around the world. Because of its self-contained, reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance or servicing for up to five years. It complies with IALA-AISM's requirements.

Major functions & features

- Based on LED technology, and its color complies to IALA Recommendations E-200-1.
- Integrated design, enabling a rugged and completely waterproof seal capable of prolonged and deep immersion (IP68).
- PC housing, UV resistance, shockproof and corrosion proof.
- With bird's pike.
- With photocell, and manual switch.
- With Steel wire to prevent falling during mounting and adjusting.
- Manufactured to ISO9001:2008 Quality Assurance standards
- Patented dome protects solar panel while improving efficiency, sheds snow.
- No RF-radiations, EMC Compliant.
- Extremely Reliable and cost saving.
- Euro EN12352 approved
- Steady burning or flashing(optional)
- Replaceable long-lasting battery

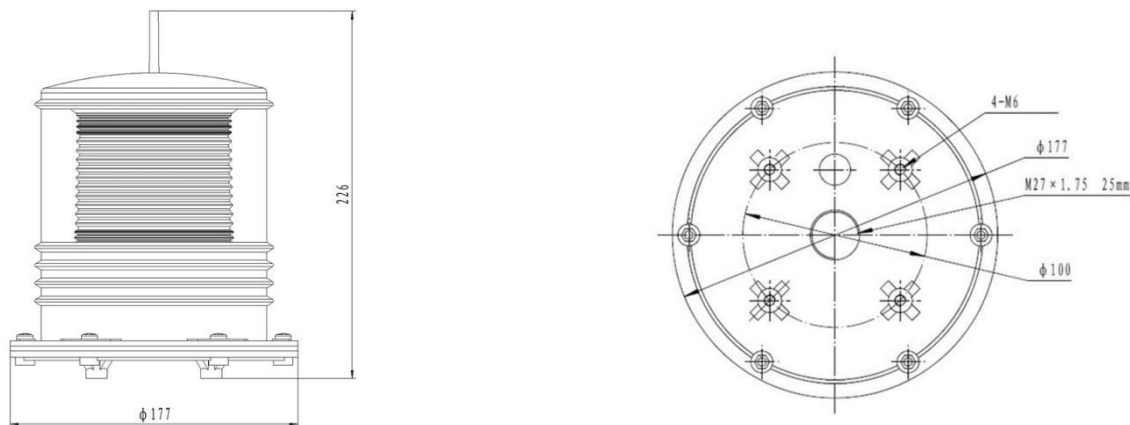


Specifications:

Light Characteristics	
Intensity	> 10cd
Visible Range	> 2nm
Available colors	Red, amber, green, blue or white(optional)
Vertical degree	± 7.5°
Horizontal degree	360 °
Light source	High brightness SMD LED
LED life	≥ 100,000 hrs
Electrical Characteristics	
Autonomy	> 10 days (12hour darkness, 12.5%duty cycle)
On/off level	300 lux±100lux
Flashing rate	complies to IALA Recommendations, Flashing 2 times in 2 seconds
Power Supply	
Solar module type	Large laminated mono-crystalline 1.2W
Output	1.8 Watts
Battery type	Lithium cell (replaceable)
Battery capacity	3.7V/4AH
Physical Characteristics	
Integrated housing	Anti-UV PC shells + Heavy duty ABS base
Waterproof	IP67
Atmospheric Transparency Coefficient	0.85
Weight	0.98 KG
Ambient temperature	-10°C ~ +50°C
Size	177 x 180mm (226mm with spike)
Warranty	1 year



Mounting dimension (unit: mm)



1. Bottom mount: Use the enclosed 4pcs M6x16 bolts to attach the lamp to an existing structure (buoy, marker, etc.) See hole pattern for hole distances (Bolts Included)
2. Pole mount: Use the underside threaded base (Threaded pole included)
3. Flange base: Remove 3 flange screws and replace with enclosed 3pcs M4x40 screws (Screws Included)
4. Magnet mount: Use 2 or 4 single sided strong magnets to attach to metal part
5. High Metal Mounting: see following details (Not included)



Metal Mounting Base

2 sizes: 150mm (11.8") or 300mm (5.9")
 Strong steel construction with anti-rust coating
 Fits several models of solar warning lights
 Easy to mount warning light using 4 x M6 bolts
 Mounts to deck surfaces using 4 x M8 bolts
 Access hole permits use of on/off/ mode buttons



Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance&walkway
- Buoy marking
- Offshore gas&oil platform



Description:

Our solar anchor light HB05 is equipped with a high-efficiency photovoltaic panel that harnesses the power of the sun to charge its built-in battery. This means that there is no need for cumbersome wiring or external power sources, making installation a breeze. Simply mount the light in a sunny location, and it will automatically recharge during the day, providing bright and steady light throughout the night.

In addition to its solar-powered design, our anchor light also boasts a number of impressive features. Its durable construction ensures that it can withstand the harshest of marine environments, including saltwater, wind, and rain. This makes it an ideal solution for coastal areas and offshore installations.

Furthermore, our solar anchor light is designed for ease of use. Its compact and lightweight design makes it easy to handle and install, and its low-maintenance solar-powered system means that there are no ongoing costs or upkeep required. Once installed, the light will continue to provide reliable illumination without the need for manual intervention.

Major functions & features

- Maintenance-free; solar powered
- Visibility over 500m
- Easily installed by metal bracket
- Strong PC housing IP68 rated
- White, Red, Blue, Green, Amber, with colored reflector
- 18 hours operation (constant ON) after one day of charging Automatically turns ON at dusk
- Constant ON or Flashing Operation (Optional)

Advantage:



Control switch



Solar energy



Reflective stickers



Screw fixation



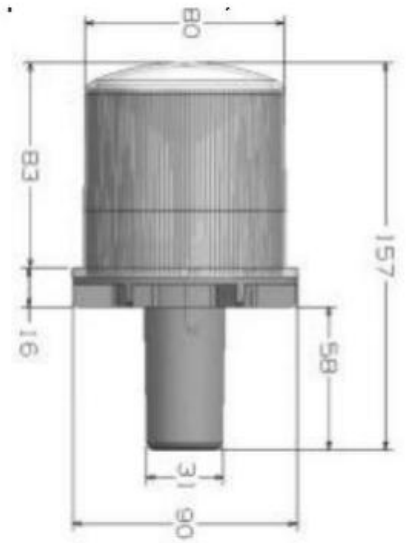
Poly prism



Specifications:

Light Characteristics	
Intensity	>10cd
Visible Range	>2nm
Available colors	Red, amber, green, blue or white(optional)
Vertical degree	±7.5 °
Horizontal degree	360 °
Light source	Ultra-bright F5 LED
LED life	≥100,000 hrs
Electrical Characteristics	
Autonomy	>10 days (12hour darkness, 12.5%duty cycle)
On/off level	300 lux±100lux
Flashing rate	complies to IALA Recommendations, Flashing 2 times in 2 seconds
Working Mode	HB-05: Flash- Constant ON - OFF HB-05 RBW: Red – Blue – White in a light RBW Flash -R F -B F -W F – R ON – B ON – W ON – OFF
Power Supply	
Solar module	Large laminated mono-crystalline 0.45W
Output	450mW
Battery	Fe battery
Battery capacity	3.2V/600mAH
Physical Characteristics	
Material	Anti-UV PC shell
Design	Optical housing + Chrome plated reflective cup
Waterproof	IP67
Atmospheric Transparency Coefficient	0.85
Weight	0.42 KG
Ambient temperature	-10°C ~ +50°C
Size	157 x 90mm
Installation	A. Locked by metal bracket (80X30mm) B. Inserted into traffic cone top or dia.>31mm pole.
Warranty	1 year

Mounting dimension (unit: mm)



Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance&walkway
- Buoy marking
- Offshore gas&oil platform



Description:

Our HB06 Solar dock light is a sleek and durable light and is designed to provide reliable illumination for docks, piers, and other waterfront structures without the need for electricity.

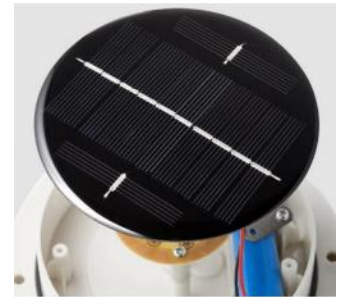
The dock light features a high-efficiency solar panel that harnesses the power of the sun to charge its built-in battery during the day. This means there are no wires or electricity required, making installation a breeze and saving you money on energy bills. With a fully charged battery, it can provide up to 10 hours of continuous illumination, ensuring that your waterfront area is well-lit and safe throughout the night.

Built to withstand the harsh conditions of waterfront environments, our HB06 is constructed from high-quality, weather-resistant materials. Its durable housing protects it from water, corrosion, and UV rays, ensuring long-lasting performance even in the harshest weather conditions. Additionally, the light is designed to be impact-resistant, making it perfect for docks and piers where it may be subject to accidental bumps and knocks.

Installation of our solar dock light is a breeze, with options for mounting on various surfaces including wood, metal, and concrete. Simply secure the light in place using the included hardware, and let the sun do the rest. Once installed, the light is completely maintenance-free, requiring no ongoing attention or upkeep.

Major functions & features

- Maintenance-free; solar powered
- 8pcs LED with optical lens, super bright
- Visibility over 2nm (3700m)
- Strong ABS case IP65 rated
- Available colors: White, Red, Blue, Green, Amber (Optional)
- Over 30 hours operation after one day of charging
- Automatically turns ON at dusk
- Constant On or Flashing Operation (optional)
- With optional support



Metal Mounting Base

- 2 sizes: 150mm (11.8") or 300mm (5.9")
- Strong steel construction with anti-rust coating
- Fits several models of solar warning lights
- Easy to mount warning light using 4 x M4 bolts
- Mounts to deck surfaces using 4 x M8 bolts
- Access hole permits use of on/off/ mode buttons



Specifications:

	Item	HB06
ELECTRICAL CHARACTERISTIC	Visible distance	>2nm(3700)
	Vertical Divergence	± 7.5 Degree
	Horizontal Divergence	360 Degree
	LED Color	Red, amber, green, blue or white(optional)
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Constant On Or Flashing
	Flash Pattern (optional)	20FPM
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
	Autonomy	30hrs
	Alarm type:	NO & NC, dry contact relay(optional)
POWER SUPPLY	Solar panel	Solar module, Large laminated mono-crystalline 1W
	Solar Efficiency	21%
	Battery	2400mAh lithium cell (replaceable)
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	ABS Base
	Material	Anti-UV PC shell + ABS base
	IP Ingress	IP68
	Weight	0.42KG
	Size	149 x 131mm (168mm with spike)
	Source	8pcs F5 LED
	Operation:	Push-button on underside to select Constant On or Flash
	Operating Temperature	-30°C ~ +55°C
	Storage Temperature	-30°C ~ +55°C
	Suitable areas:	PSH≥3
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
	Atmospheric Transparency Coefficient	0.85
OTHERS	Warranty	1 year



Mounting dimension (unit: mm)

Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- 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

Description:

HB20 Design marine Solar power LED Boat/Beacon Navigation Lights is a cost effective, self-contained, high-performance, free maintenance, durable, anti-UV and easy to install solar LED marine light. It features a replaceable battery pack that extends the service life beyond five years, reducing the total cost of ownership and specially designed for the safety of small boat navigation such as yachts and fishing boats. It complies with IALA-AISM's requirements

Major functions & features

- Flashing and two nautical mile of visibility
- Turns on at dusk and off at dawn automatically or by a touch switch.
- Completely self-contained and waterproof IP67.
- Charge under nearly all weather conditions and up to 70 hrs of operating capacity from a full charge.
- Light and durable, designed for long term use in the harshest marine environments
- Lens is polycarbonate with anti-UV which is produced by Bayer.
- It has 256 IALA flashing patterns, user adjustable.

Specifications:

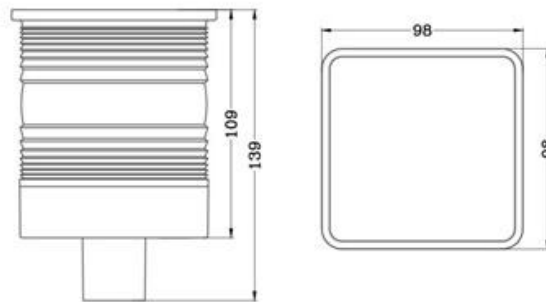
Light Output	360°Flashing		
Average Intensity	White:18cd;	Red:14cd;	Amber: 12cd;
Visibility	2NM		
LEDs and its Lifespan	10 Pcs and its lifespan up to 50,000 Hrs		
Minimum Autonomy	200 Hours		
ON/OFF Level	60/100 Lux		
Latitude Range	55°S to 55°N		
Solar panel	Mono-crystalline; 1.1Wp; Efficiency 16%		
Battery	Ni-MH 5Ah/2.4V		
Lens Material and Colors	Polycarbonate		
Weight / Waterproof	0.25Kg / IP67		
Temperature Range	-40°C to +80°C		



Details:



Crane warning



Dimension Drawings



HB20 at Night



HB20 in a High-building

Applications:

Marine Warning	Traffic Warning	Safety Warning	Obstruction Lighting
• Buoy Marking	• Barricade	• Mining	• Tower
• Aqua Cage	• Dangerous Sign	• Hazardous Zone	• Chimney
• Beacon Lighting	• Temporary Warning	• Equipment Marker	• High-building
• Ocean Engineering	• Slow Alert	• Pad Transformer	• Crane

Description:

The HB50 model has four 5 watt (20 watt total) premium-grade solar modules integrated into the solar chassis, and mounted to collect sunlight at all angles, which makes HB50 a self-contained and care-free light unit and with MPPT (Maximized Power Point Tracking) micro-controller enables this model to maximize solar power output.

Robust body built and surface coating provides good protection against harshest environments.

HB50 is equipped with an 12V12Ah Lithium rechargeable battery which could power the light up to 25 days when the weather is cloudy & rainy. The solar array charges an internal battery during daylight hours, and at dusk the light will automatically begin operation, and HB50 is also available with an on/off switch for storing and protect battery from over-charging and over-discharging.

Incorporated SBM (Smart Battery Management) program reduces energy consumption. By detecting ambient solar irradiance, HB50 can self-adjust LED outputs for extending autonomy.

The fixture become the most classical solar-powered LED Light in the field of marine aid to navigation around the world. Because of its self-contained, reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance or servicing for up to five years. It complies with IALA-AISM's requirements.

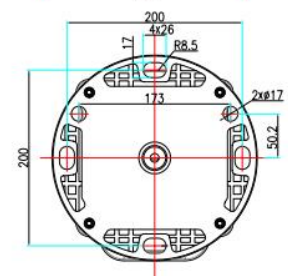
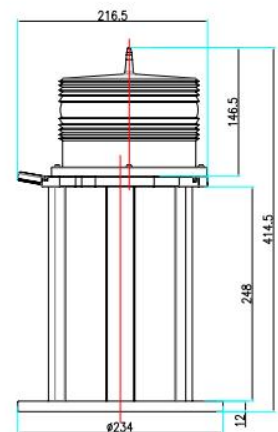
Major functions & features

- Ultra-bright LEDs, reliable light source ensures long lifespan
- Complies to IALA Recommendations E-200-1
- Four-side solar panels and integrated MPPT maximize sunlight collection
- 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 25 days once fully charged during insufficient sunlight days
- Automatically off after being packed for 18 hours
- Integrated handle
- Protective vent for expelling battery gas and reduce condensation
- Bird spike against birds landing and nesting
- No regular maintenance
- Excellent shock and vibration resistant
- Convenient ON/OFF switch
- Installs in seconds
- Extremely Reliable and cost saving.
- Dip switch for fixed type to flashing changeable
- Optional GPS synchronization function



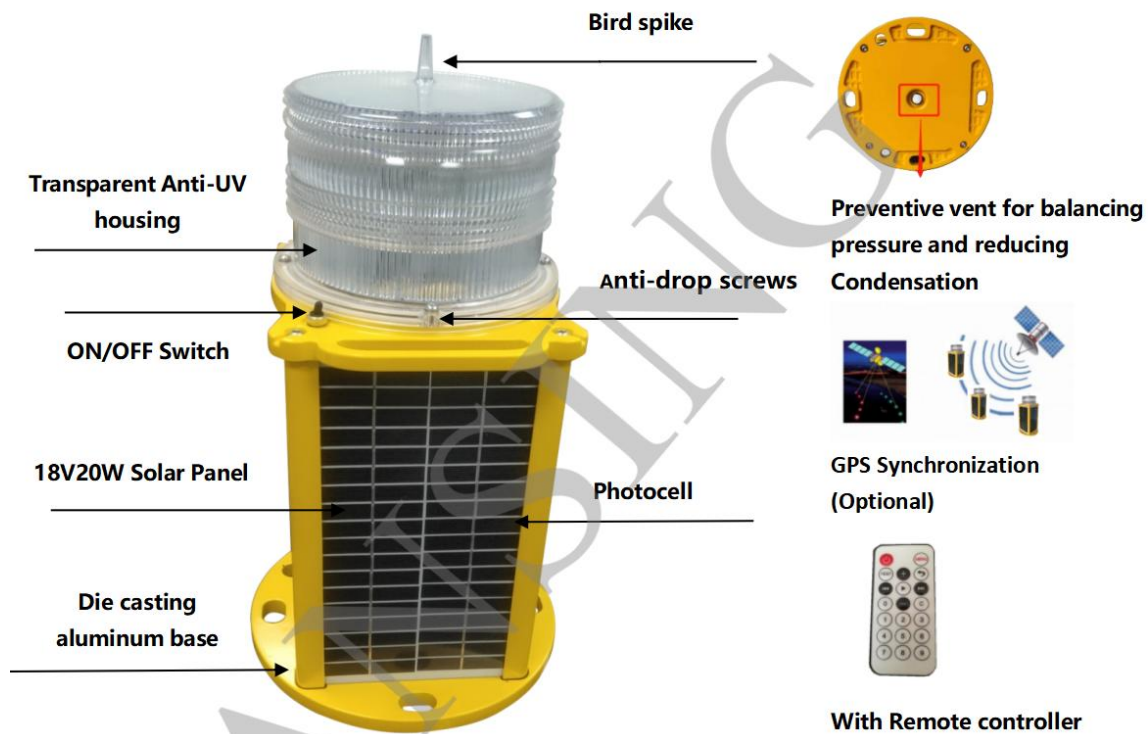
Specifications:

Item		HB50
ELECTRICAL CHARACTERISTIC	Visible distance	5-7NM
	Vertical Divergence	10 Degree
	Horizontal Divergence	360 Degree
	LED Color	Red (for obstruction). White, yellow, green and blue are available for other applications
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
	Autonomy	25 days(flashing), 8 days(steady burning)
	Alarm type:	NO & NC, dry contact relay(optional)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 18V/4*5W
	Solar Efficiency	21%
	Battery capacity	High-efficiency 12V12Ah Lithium battery
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP67
	Weight	6.4KG
	Operating Temperature	-30°C ~ +55°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	PSH≥3
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
OTHERS	Warranty	2 years

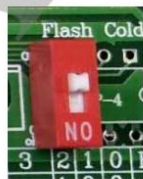


Mounting dimension(mm)

Advantage:



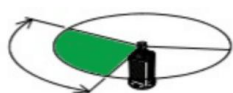
Easy replaceable lithium battery



Dip switch for fixed and flashing changeable



NO&NC Dry alarm relay (optional)



GREEN (112.5°)



YELLOW (225°)

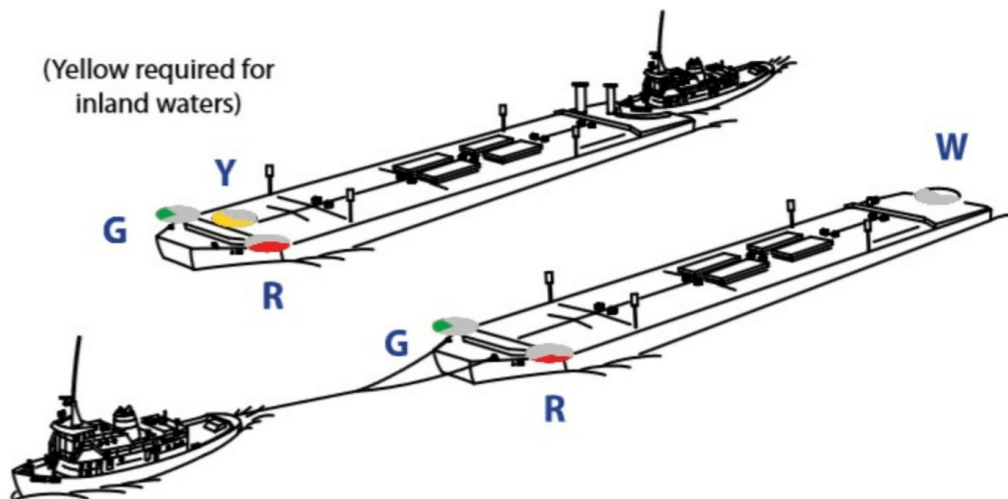


RED (112.5°)



WHITE (135°)

(Yellow required for inland waters)



Description:

The HB50-RF model has four 5 watt (20 watt total) premium-grade solar modules integrated into the solar chassis, and mounted to collect sunlight at all angles, which makes HB50-RF a self-contained and care-free light unit and with MPPT (Maximized Power Point Tracking) micro-controller enables this model to maximize solar power output.

The fixture is equipped with a remote controller, which can make the light having 256 kinds of flashing rate. Robust body built and surface coating provides good protection against harshest environments. HB50-RF is equipped with an 12V12Ah Lithium rechargeable battery which could power the light up to 25 days when the weather is cloudy & rainy. The solar array charges an internal battery during daylight hours, and at dusk the light will automatically begin operation, and HB50-RF is also available with an on/off switch for storing and protect battery from over-charging and over-discharging.

Incorporated SBM (Smart Battery Management) program reduces energy consumption. By detecting ambient solar irradiance, HB50-RF can self-adjust LED outputs for extending autonomy.

The fixture become the most classical solar-powered LED Light in the field of marine aid to navigation around the world. Because of its self-contained, reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance or servicing for up to five years. It complies with IALA-AISM's requirements.

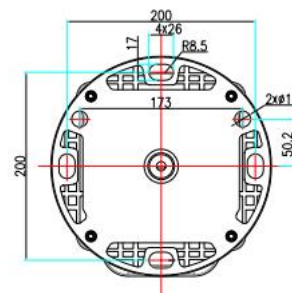
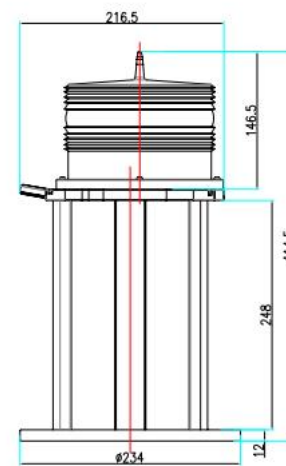
Major functions & features

- Complies to IALA Recommendations E-200-1.
- Four-side solar panels and integrated MPPT maximize sunlight collection
- Integrated MPPT (Maximized Power Point Tracking) for maximizing sunlight collection
- Automatic night activation
- 256 kinds of flashing pattern
- Convenient ON/OFF switch
- 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 25 days once fully charged during insufficient sunlight days
- Automatically off after being packed for 18 hours
- Integrated handle
- 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 waterproof
- Extremely Reliable and cost saving.
- Installs in seconds
- Optional GPS synchronization function



Specifications:

Item		HB50
ELECTRICAL CHARACTERISTIC	Visible distance	5-7NM
	Vertical Divergence	10 Degree
	Horizontal out-put	360 Degree
	LED Color	Red (for obstruction). White, yellow, green and blue are available for other applications
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
	Autonomy	25 days(flashing), 8 days(steady burning)
	Alarm type:	NO & NC, dry contact relay(optional)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 18V/4*5W
	Solar Efficiency	21%
	Battery capacity	High-efficiency 12V12Ah Lithium battery
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP67
	Weight	6.4KG
	Operating Temperature	-30°C ~ +55°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	PSH≥3
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
OTHERS	Warranty	2 years



Mounting dimension(mm)

Advantage:

Bird spike

Transparent Anti-UV housing

ON/OFF Switch

18V20W Solar Panel

Die casting aluminum base

Anti-drop screws

Photocell

Preventive vent for balancing pressure and reducing Condensation

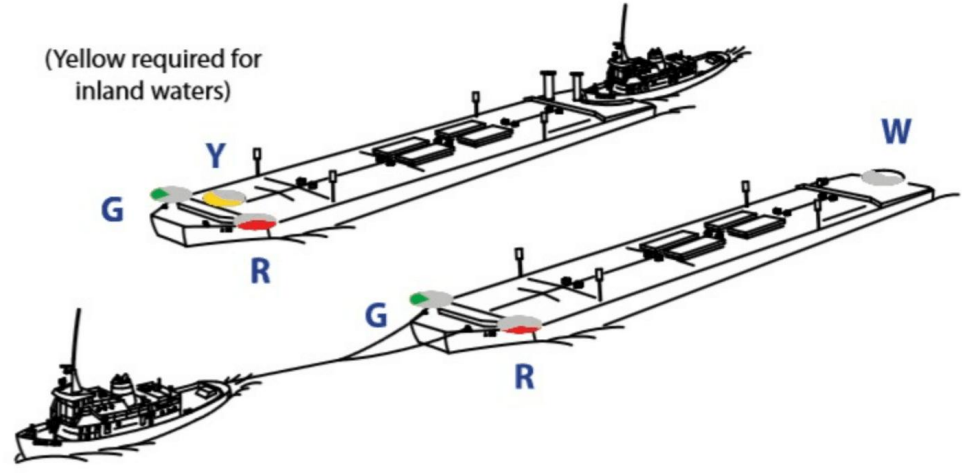
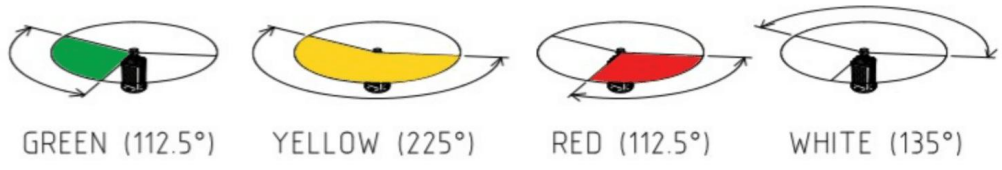
GPS Synchronization (Optional)

With Remote controller which can adjust 256 kinds of Flashing rate

Easy replaceable lithium battery

Dip switch for fixed and flashing changeable

NO&NC Dry alarm relay (optional)



Description:

The HB60 model has four 5 watt (20 watt total) premium-grade solar modules integrated into the solar chassis, and mounted to collect sunlight at all angles, which makes HB60 a self-contained and care-free light unit and with MPPT (Maximized Power Point Tracking) micro-controller enables this model to maximize solar power output.

Robust body built and surface coating provides good protection against harshest environments. HB60 is equipped with an 12V10Ah Lithium rechargeable battery which could power the light up to 15 days when the weather is cloudy & rainy. The solar array charges an internal battery during daylight hours, and at dusk the light will automatically begin operation, and HB60 is also available with an on/off switch for storing and protect battery from over-charging and over-discharging.

Incorporated SBM (Smart Battery Management) program reduces energy consumption. By detecting ambient solar irradiance, HB60 can self-adjust LED outputs for extending autonomy.

The fixture become the most classical solar-powered LED Light in the field of marine aid to navigation around the world. Because of its self-contained, reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance or servicing for up to five years. It complies with IALA-AISM's requirements.

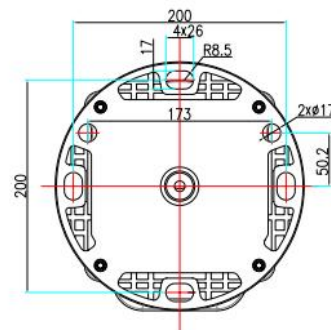
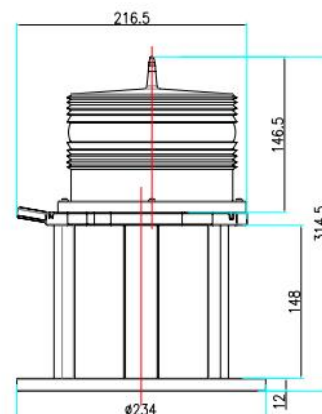
Major functions & features

- Ultra-bright LEDs, reliable light source ensures long lifespan
- Complies to IALA Recommendations E-200-1.
- Four-side solar panels and integrated MPPT maximize sunlight collection
- Integrated MPPT (Maximized Power Point Tracking) for maximizing sunlight collection
- Automatic night activation
- Convenient ON/OFF switch
- 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 15 days once fully charged during insufficient sunlight days
- Automatically off after being packed for 18 hours
- Integrated handle
- 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 waterproof
- Extremely Reliable and cost saving.
- Installs in seconds
- Optional GPS synchronization function



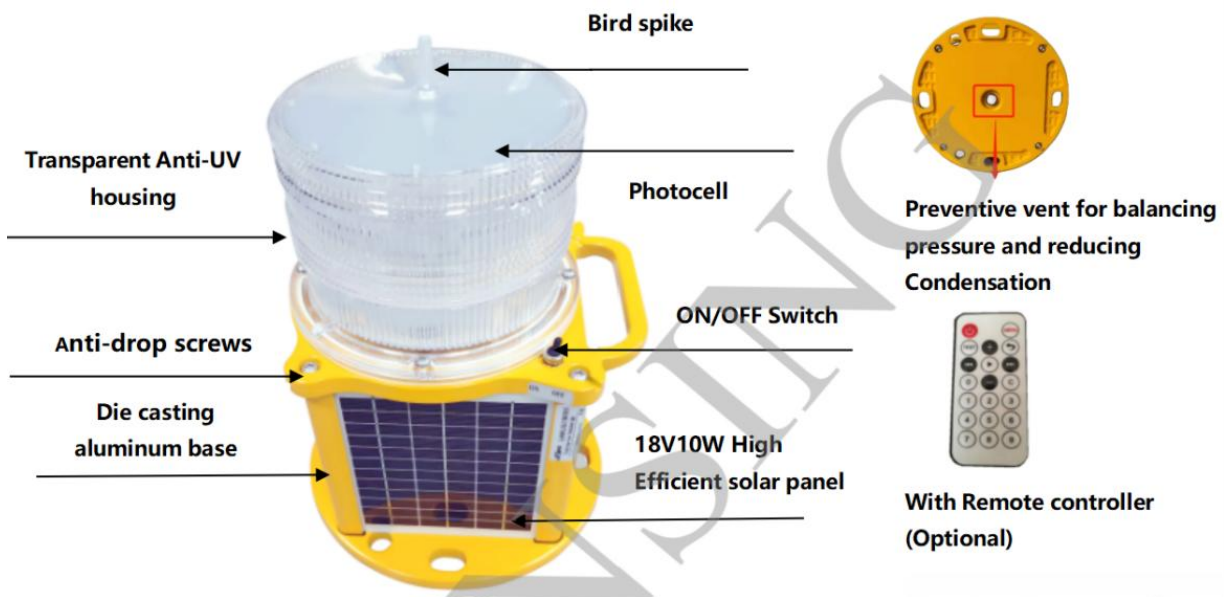
Specifications:

Item		HB60
ELECTRICAL CHARACTERISTIC	Visible distance	3-5nm
	Vertical Divergence	10 Degree
	Horizontal out-put	360 Degree
	LED Color	Red (for obstruction). White, yellow, green and blue are available for other applications
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
	Autonomy	15 days(flashing), 8 days(steady burning)
	Alarm type:	NO & NC, dry contact relay(optional)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 18V/10W
	Solar Efficiency	21%
	Battery capacity	High-efficiency 12V10Ah Lithium battery
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP67
	Weight	4.6KG
	Operating Temperature	-30°C ~ +55°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	PSH≥3
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
OTHERS	Warranty	2 years



Mounting dimension(mm)

Advantage:



Easy replaceable lithium battery



Dip switch for fixed and flashing changeable



NO&NC Dry alarm relay (optional)



GPS Synchronization (Optional)



GREEN (112.5°)



YELLOW (225°)

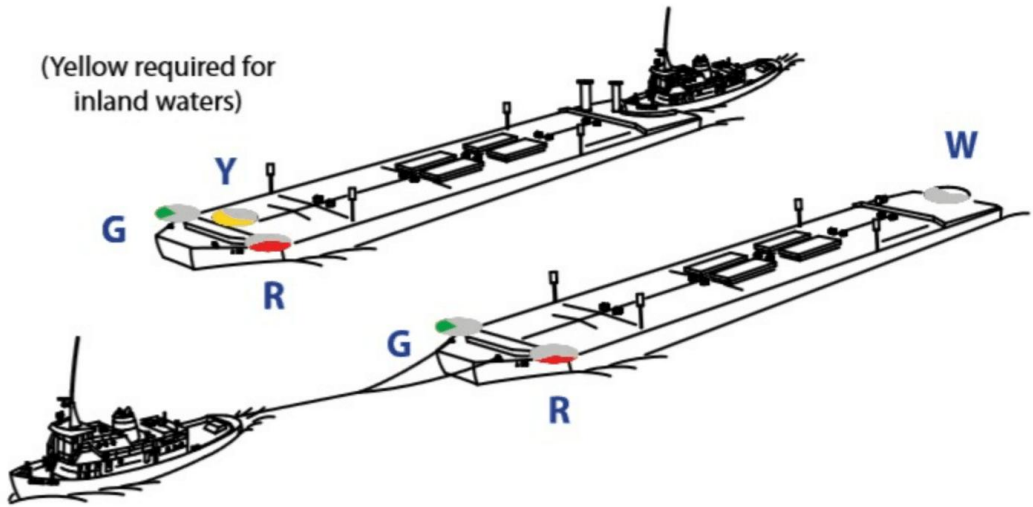


RED (112.5°)



WHITE (135°)

(Yellow required for inland waters)



Description:

The HB60-RF model has four 5 watt (20 watt total) premium-grade solar modules integrated into the solar chassis, and mounted to collect sunlight at all angles, which makes HB60-RF a self-contained and care-free light unit and with MPPT (Maximized Power Point Tracking) micro-controller enables this model to maximize solar power output.

The fixture is equipped with a remote controller, which can make the light having 256 kinds of flashing rate.

Robust body built and surface coating provides good protection against harshest environments.

HB60-RF is equipped with an 12V10Ah Lithium rechargeable battery which could power the light up to 15 days when the weather is cloudy & rainy. The solar array charges an internal battery during daylight hours, and at dusk the light will automatically begin operation, and HB60-RF is also available with an on/off switch for storing and protect battery from over-charging and over-discharging.

Incorporated SBM (Smart Battery Management) program reduces energy consumption. By detecting ambient solar irradiance, HB60 can self-adjust LED outputs for extending autonomy.

The fixture become the most classical solar-powered LED Light in the field of marine aid to navigation around the world. Because of its self-contained, reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance or servicing for up to five years. It complies with IALA-AISM's requirements.

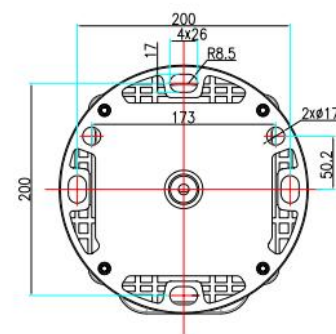
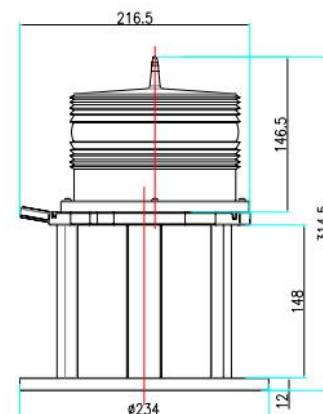
Major functions & features

- Complies to IALA Recommendations E-200-1.
- Four-side solar panels and integrated MPPT maximize sunlight collection
- Integrated MPPT (Maximized Power Point Tracking) for maximizing sunlight collection
- Automatic night activation
- 256 kinds of flashing pattern
- Convenient ON/OFF switch
- 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 15 days once fully charged during insufficient sunlight days
- Automatically off after being packed for 18 hours
- Integrated handle
- 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 waterproof
- Extremely Reliable and cost saving.



Specifications:

	Item	HB60-RF
ELECTRICAL CHARACTERISTIC	Visible distance	3-5nm
	Vertical Divergence	10 Degree
	Horizontal Divergence	360 Degree
	LED Color	Red (for obstruction). White, yellow, green and blue are available for other applications
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
	Autonomy	15 days(flashing), 8 days(steady burning)
	Alarm type:	NO & NC, dry contact relay(optional)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 18V/10W
	Solar Efficiency	21%
	Battery capacity	High-efficiency 12V10Ah Lithium battery
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP67
	Weight	4.6KG
	Operating Temperature	-30°C ~ +55°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	PSH≥3
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
	Atmospheric Transparency Coefficient	0.85
OTHERS	Warranty	2 years

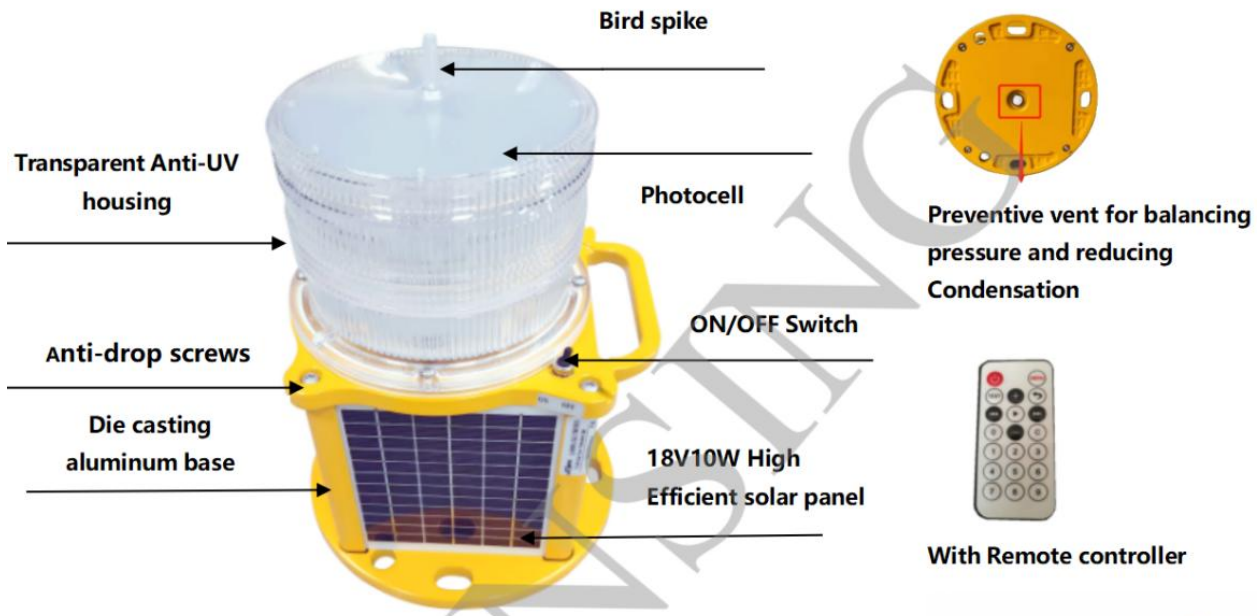


Mounting dimension(mm)

Compliance with

- ABNT (Brazilian Association of Technical Standards)
- IALA Recommendation E-200-1 on Marine Signal Lights

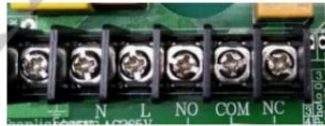
Advantage:



Easy replaceable lithium battery



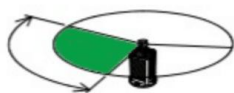
Dip switch for fixed and flashing changeable



NO&NC Dry alarm relay (optional)



GPS Synchronization (Optional)



GREEN (112.5°)



YELLOW (225°)

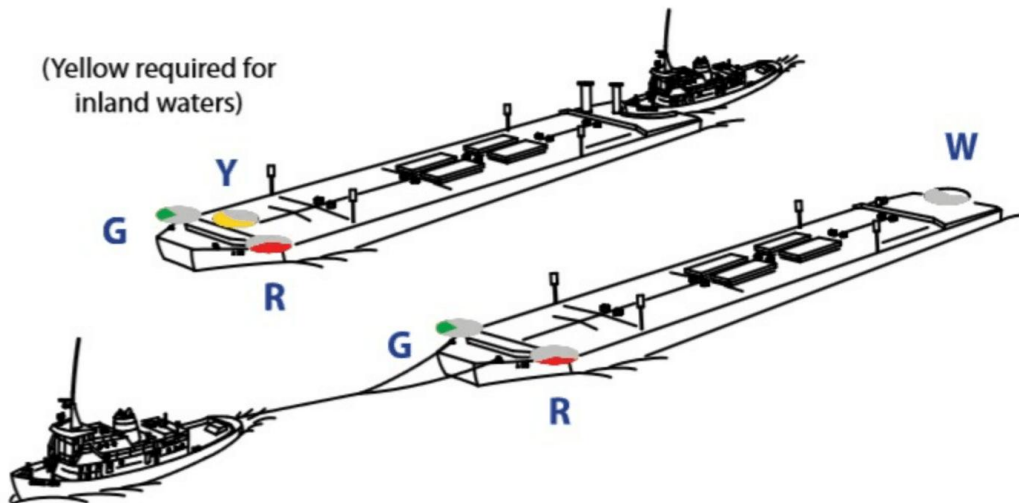


RED (112.5°)



WHITE (135°)

(Yellow required for inland waters)



Description:

The HB80 model has four 6 watt (24 watt total) premium-grade solar modules integrated into the solar chassis, and mounted to collect sunlight at all angles, which makes HB80 a self-contained and care-free light unit and with MPPT (Maximized Power Point Tracking) micro-controller enables this model to maximize solar power output.

Robust body built and surface coating provides good protection against harshest environments.HB80 is equipped with an 12V14Ah Lithium rechargeable battery which could power the light up to 25 days when the weather is cloudy & rainy. The solar array charges an internal battery during daylight hours, and at dusk the light will automatically begin operation,and HB80 is also available with an on/off switch for storing and protect battery from over-charging and over-discharging.

Incorporated SBM (Smart Battery Management) program reduces energy consumption. By detecting ambient solar irradiance, HB80 can self-adjust LED outputs for extending autonomy.

The fixture become the most classical solar-powered LED Light in the field of marine aid to navigation around the world. Because of its self-contained, reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance or servicing for up to five years. It complies with IALA-AISM's requirements.

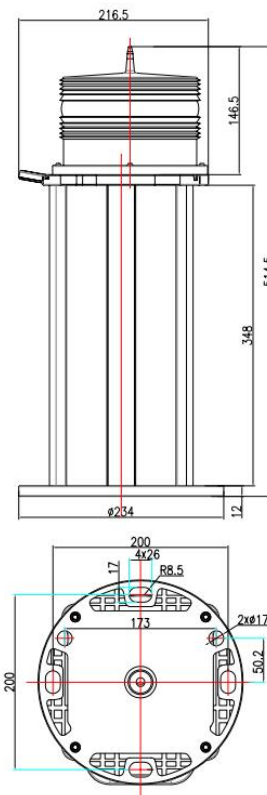
Major functions & features

- Ultra-bright LEDs, reliable light source ensures long lifespan
- Complies to IALA Recommendations E-200-1
- Four-side solar panels and integrated MPPT maximize sunlight collection
- 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 25 days once fully charged during insufficient sunlight days
- Automatically off after being packed for 18 hours
- Integrated handle
- Protective vent for expelling battery gas and reduce condensation
- Bird spike against birds landing and nesting
- No regular maintenance
- Excellent shock and vibration resistant
- Convenient ON/OFF switch
- Installs in seconds
- Extremely Reliable and cost saving.
- Dip switch for fixed type to flashing changeable
- Optional GPS synchronization function



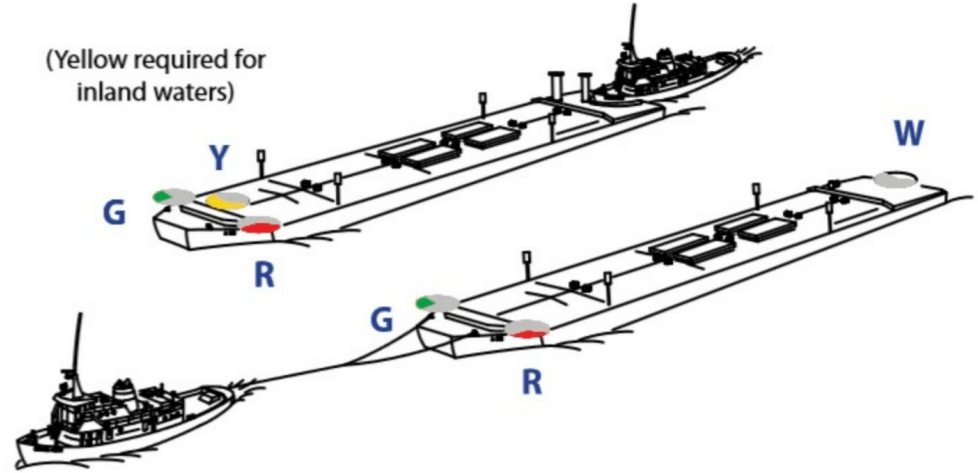
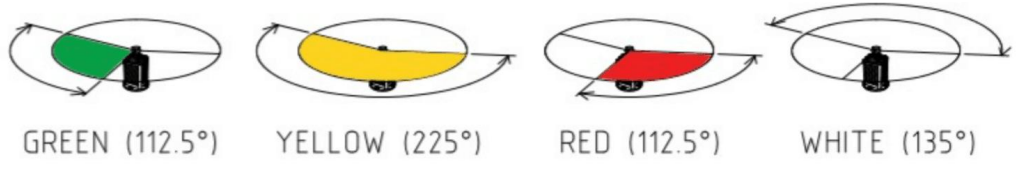
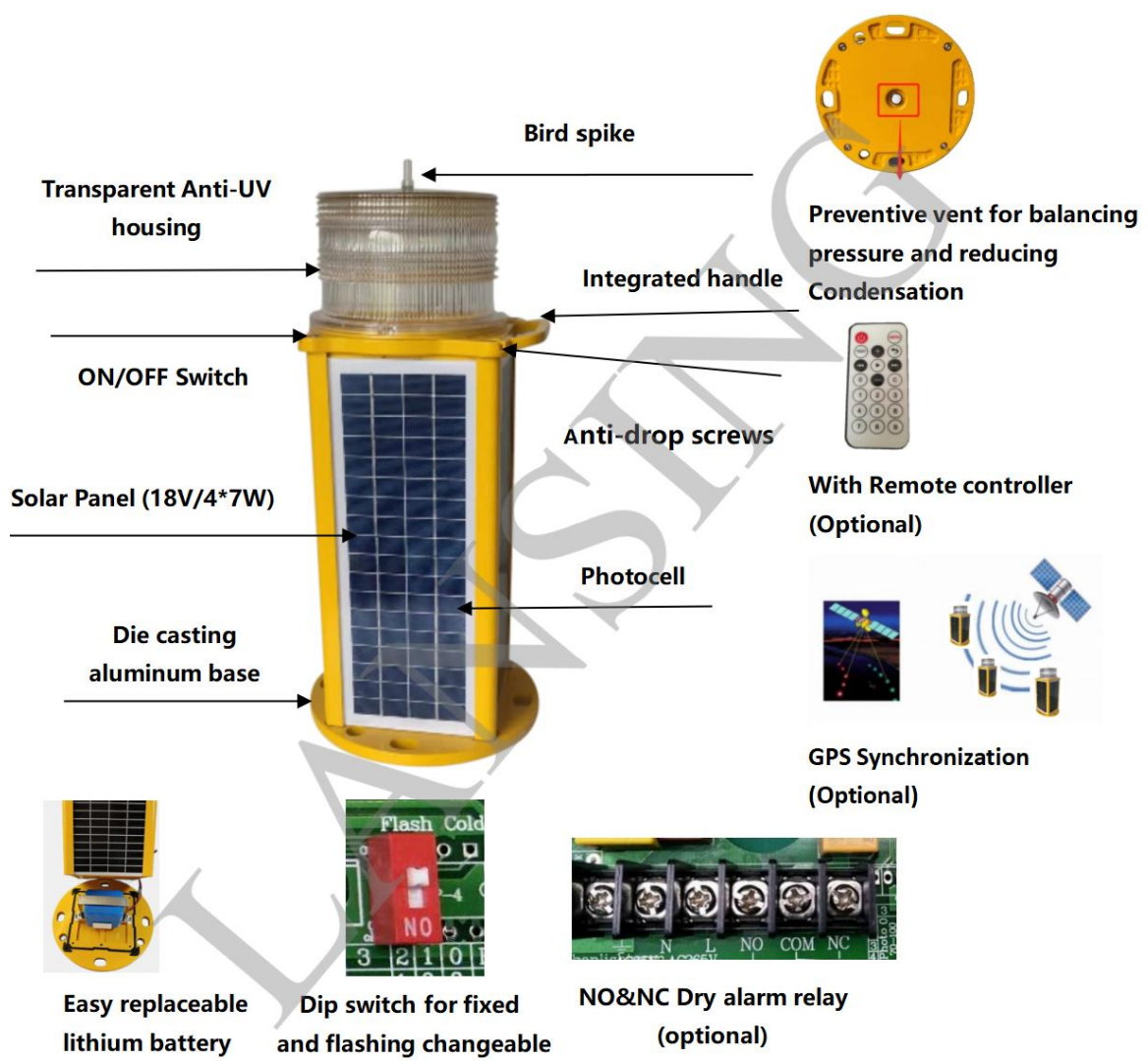
Specifications:

	Item	HB80
ELECTRICAL CHARACTERISTIC	Visible distance	7-10NM
	Vertical Divergence	10 Degree
	Horizontal Divergence	360 Degree
	LED Color	Red (for obstruction). White, yellow, green and blue are available for other applications
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
	Autonomy	25 days(flashing), 8 days(steady burning)
	Alarm type:	NO & NC, dry contact relay(optional)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 18V/4*6W
	Solar Efficiency	21%
	Battery capacity	High-efficiency 12V14Ah Lithium battery
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP67
	Weight	9.8KG
	Operating Temperature	-30°C ~ +55°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	PSH≥3
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
OTHERS	Warranty	2 years



Mounting dimension(mm)

Advantage:



Description:

The HB80-RF model has four 6 watt (24 watt total) premium-grade solar modules integrated into the solar chassis, and mounted to collect sunlight at all angles, which makes HB80-RF a self-contained and care-free light unit and with MPPT (Maximized Power Point Tracking) micro-controller enables this model to maximize solar power output.

Robust body built and surface coating provides good protection against harshest environments.HB80-RF is equipped with an 12V14Ah Lithium rechargeable battery which could power the light up to 25 days when the weather is cloudy & rainy. The solar array charges an internal battery during daylight hours, and at dusk the light will automatically begin operation,and HB80-RF is also available with an on/off switch for storing and protect battery from over-charging and over-discharging.

Incorporated SBM (Smart Battery Management) program reduces energy consumption. By detecting ambient solar irradiance, HB80-RF can self-adjust LED outputs for extending autonomy.

The fixture become the most classical solar-powered LED Light in the field of marine aid to navigation around the world. Because of its self-contained, reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance or servicing for up to five years. It complies with IALA-AISM's requirements.

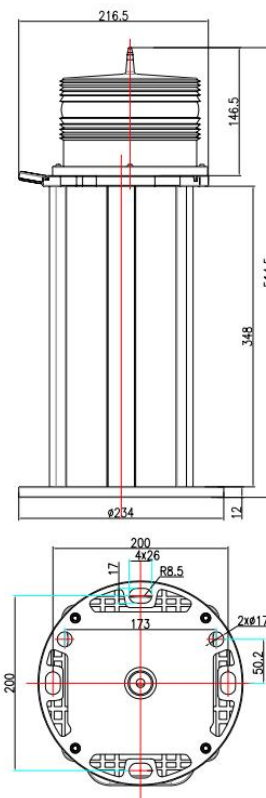
Major functions & features

- Ultra-bright LEDs, reliable light source ensures long lifespan
- Complies to IALA Recommendations E-200-1
- Four-side solar panels and integrated MPPT maximize sunlight collection
- 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 25 days once fully charged during insufficient sunlight days
- Automatically off after being packed for 18 hours
- Integrated handle
- Protective vent for expelling battery gas and reduce condensation
- Bird spike against birds landing and nesting
- No regular maintenance
- Excellent shock and vibration resistant
- Convenient ON/OFF switch
- Installs in seconds
- Extremely Reliable and cost saving.
- Dip switch for fixed type to flashing changeable
- Optional GPS synchronization function



Specifications:

Item		HB80-RF
ELECTRICAL CHARACTERISTIC	Visible distance	7-10NM
	Vertical Divergence	10 Degree
	Horizontal Divergence	360 Degree
	LED Color	Red (for obstruction). White, yellow, green and blue are available for other applications
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
	Autonomy	25 days(flashing), 8 days(steady burning)
	Alarm type:	NO & NC, dry contact relay(optional)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 18V/4*6W
	Solar Efficiency	21%
	Battery capacity	High-efficiency 12V14Ah Lithium battery
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP67
	Weight	9.8KG
	Operating Temperature	-30°C ~ +55°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	PSH≥3
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
	Atmospheric Transparency Coefficient	0.85
OTHERS	Warranty	2 years



Mounting dimension(mm)

Compliance with

- ABNT (Brazilian Association of Technical Standards)
- IALA Recommendation E-200-1 on Marine Signal Lights

Advantage:

Bird spike

Transparent Anti-UV housing

ON/OFF Switch

Solar Panel (18V/4*7W)

Die casting aluminum base

Integrated handle

Preventive vent for balancing pressure and reducing Condensation

Anti-drop screws

Photocell

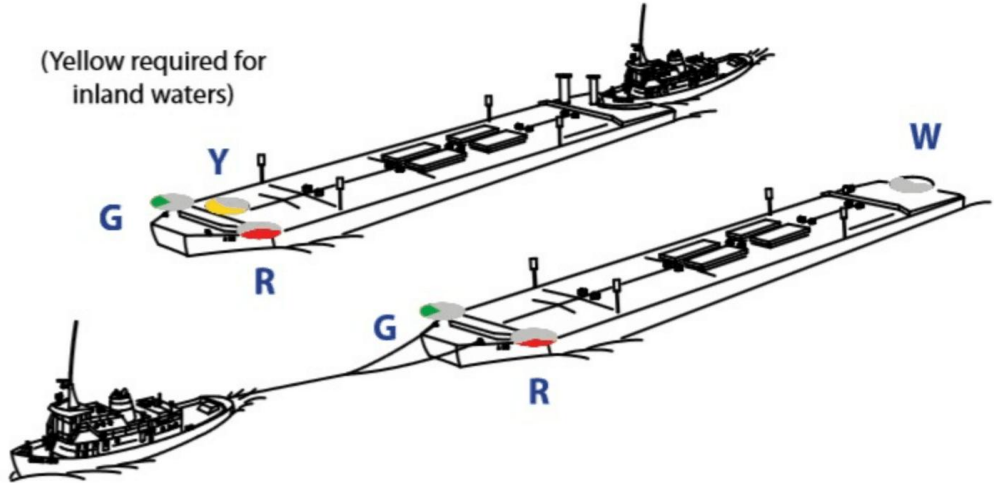
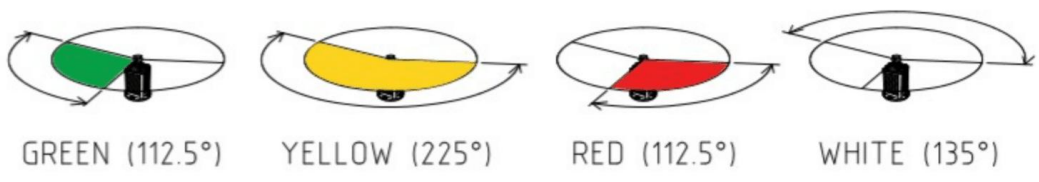
With Remote controller

GPS Synchronization (Optional)

Easy replaceable lithium battery

Dip switch for fixed and flashing changeable

NO&NC Dry alarm relay (optional)



Product Description:

GL10 has become the most classical LED Light in the field of marine aid to navigation around the world. Because of its reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance. The optical part is based on polycarbonate lens for better led transformation which can concentrate light to a small specific angel to meet 2.5nm visibility requirements. Robust aluminum body with powder coating provides excellent protection against harsh environments.

It complies with IALA-AISM's requirements. The service life can be guaranteed with more than 10 years by using high quality LED.

Features& Benefits:

- Based on LED technology, and its color complies to IALA Recommendations E-200-1
- Integrated design, enabling a rugged and completely waterproof seal capable of prolonged and deep immersion (IP67).
- Available for both AC and DC conditions.
- Lens made from durable, UV-stabilized LEXAN polycarbonate
- Aluminum base with powder painted, corrosion-resistant
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Photocell option for automatic activation at night
- No regular maintenance
- Uses 96% less power than an incandescent light
- With surge protection up to 2KV
- Excellent shock and vibration resistant
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- 2 years warranty

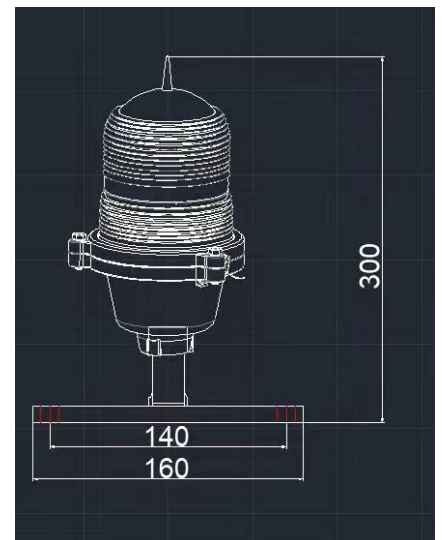
Applications:

- Navigation aid
- Port, dock entrance walkway
- Buoy marking
- Offshore gas& oil platform
- Yacht Clubs
- Boat Houses
- Piers
- Safety & Hazard Prevention



Specifications:

Item		GL10
ELECTRICAL CHARACTERISTIC	Visible distance	>2.5nm
	Vertical Divergence	10 Degree
	Horizontal out-put	360 Degree
	LED Color	Red, yellow, white, green or blue
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing
	Flash Pattern	Flashing: 20/30/40/60FPM; Default: 40FPM; Steady burning
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
POWER SUPPLY	Input voltage	85-265VAC, 50/60 Hz;12VDC; 24VDC;30-60VDC;
	Power consumption	3W (Steady burning)
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Die-casting Aluminum
	IP Ingress	IP67
	Weight	3KG
	Operating Temperature	-40°C ~ +55°C
	Storage Temperature	-40°C ~ +70°C
	Wire Connection mode	Pre wired
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
OTHERS	Warranty	2 years
	Optional	Flashing pattern(20--60FPM) Built-in photocell



Mounting dimension(mm)

Advantage:



Installation and operation

- ① Secure the light on a smooth surface which has enough strength.
- ② When installation, please stay away the nearby light source, at the same time, ensure the photocell do not cover by the near object.
- ③ Make sure the power supply can match the rated power of light before connecting.
- ④ Connect the power cable to the prewire of the lamp base according to the marking of the wire
- ⑤ Check whether the power cables are connected correctly before power on.

Product Description:

GL32 has become the most classical LED Light in the field of marine aid to navigation around the world. Because of its reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance. The optical part is based on polycarbonate lens for better led transformation which can concentrate light to a small specific angel to meet 3-4nm visibility requirements. Robust aluminum body with powder coating provides excellent protection against harsh environments.

It complies with IALA-AISM's requirements. The service life can be guaranteed with more than 10 years by using high quality LED.

Features& Benefits:

- Based on LED technology, and its color complies to IALA Recommendations E-200-1
- Integrated design, enabling a rugged and completely waterproof seal capable of prolonged and deep immersion (IP67).
- Available for both AC and DC conditions.
- Lens made from durable, UV-stabilized LEXAN polycarbonate
- Aluminum base with powder painted, corrosion-resistant
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Photocell option for automatic activation at night
- No regular maintenance
- Uses 96% less power than an incandescent light
- With surge protection up to 2KV
- Excellent shock and vibration resistant
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- 2 years warranty

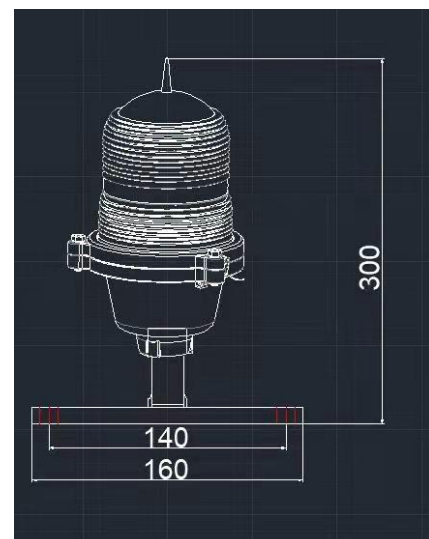
Applications:

- Navigation aid
- Port, dock entrance walkway
- Buoy marking
- Offshore gas& oil platform
- Yacht Clubs
- Boat Houses
- Piers
- Safety & Hazard Prevention



Specifications:

Item		GL32
ELECTRICAL CHARACTERISTIC	Visible distance	>3-4nm
	Vertical Divergence	10 Degree
	Horizontal out-put	360 Degree
	LED Color	Red, yellow, white, green or blue
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing
	Flash Pattern	Flashing: 20/30/40/60FPM; Default: 40FPM; Steady burning
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
POWER SUPPLY	Input voltage	85-265VAC, 50/60 Hz;12VDC; 24VDC;30-60VDC;
	Power consumption	5W (Steady burning)
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Die-casting Aluminum
	IP Ingress	IP67
	Weight	3KG
	Operating Temperature	-40°C ~ +55°C
	Storage Temperature	-40°C ~ +70°C
	Wire Connection mode	Pre wired
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
OTHERS	Warranty	2 years
	Optional	Flashing pattern(20--60FPM) Built-in photocell



Mounting dimension(mm)

Advantage:



Installation and operation

- ① Secure the light on a smooth surface which has enough strength.
- ② When installation, please stay away the nearby light source, at the same time, ensure the photocell do not cover by the near object.
- ③ Make sure the power supply can match the rated power of light before connecting.
- ④ Connect the power cable to the prewire of the lamp base according to the marking of the wire
- ⑤ Check whether the power cables are connected correctly before power on.

Product Description:

GL50 has become the most classical LED Light in the field of marine aid to navigation around the world. Because of its reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance. The optical part is based on polycarbonate lens for better led transformation which can concentrate light to a small specific angel to meet 5-7nm visibility requirements. Robust aluminum body with powder coating provides excellent protection against harsh environments.

It complies with IALA-AISM's requirements. The service life can be guaranteed with more than 10 years by using high quality LED.

Features& Benefits:

- Based on LED technology, and its color complies to IALA Recommendations E-200-1
- Integrated design, enabling a rugged and completely waterproof seal capable of prolonged and deep immersion (IP67).
- Available for both AC and DC conditions.
- Lens made from durable, UV-stabilized LEXAN polycarbonate
- Aluminum base with powder painted, corrosion-resistant
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Photocell option for automatic activation at night
- No regular maintenance
- Uses 96% less power than an incandescent light
- With surge protection up to 2KV
- Excellent shock and vibration resistant
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- 2 years warranty

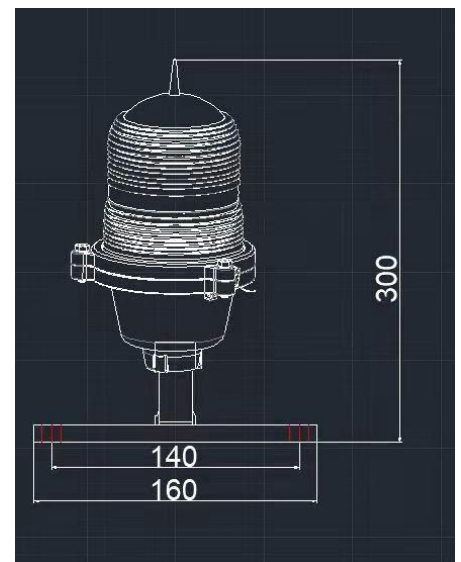
Applications:

- Navigation aid
- Port, dock entrance walkway
- Buoy marking
- Offshore gas& oil platform
- Yacht Clubs
- Boat Houses
- Piers
- Safety & Hazard Prevention



Specifications:

Item		GL50
ELECTRICAL CHARACTERISTIC	Visible distance	>5-7nm
	Vertical Divergence	10 Degree
	Horizontal out-put	360 Degree
	LED Color	Red, yellow, white, green or blue
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing
	Flash Pattern	Flashing: 20/30/40/60FPM; Default: 40FPM; Steady burning
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
POWER SUPPLY	Input voltage	85-265VAC, 50/60 Hz;12VDC; 24VDC;30-60VDC;
	Power consumption	8W (Steady burning)
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Die-casting Aluminum
	IP Ingress	IP67
	Weight	3KG
	Operating Temperature	-40°C ~ +55°C
	Storage Temperature	-40°C ~ +70°C
	Wire Connection mode	Pre wired
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
OTHERS	Warranty	2 years
	Optional	Flashing pattern(20--60FPM) Built-in photocell



Mounting dimension(mm)

Advantage:



Installation and operation

- ① Secure the light on a smooth surface which has enough strength.
- ② When installation, please stay away the nearby light source, at the same time, ensure the photocell do not cover by the near object.
- ③ Make sure the power supply can match the rated power of light before connecting.
- ④ Connect the power cable to the prewire of the lamp base according to the marking of the wire
- ⑤ Check whether the power cables are connected correctly before power on.

Product Description:

GL100 has become the most classical LED Light in the field of marine aid to navigation around the world. Because of its reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance. The optical part is based on polycarbonate lens for better led transformation which can concentrate light to a small specific angel to meet 10nm visibility requirements. Robust aluminum body with powder coating provides excellent protection against harsh environments.

It complies with IALA-AISM's requirements. The service life can be guaranteed with more than 10 years by using high quality LED.

Features& Benefits:

- Based on LED technology, and its color complies to IALA Recommendations E-200-1
- Integrated design, enabling a rugged and completely waterproof seal capable of prolonged and deep immersion (IP67).
- Available for both AC and DC conditions.
- Lens made from durable, UV-stabilized LEXAN polycarbonate
- Aluminum base with powder painted, corrosion-resistant
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Photocell option for automatic activation at night
- No regular maintenance
- Uses 96% less power than an incandescent light
- With surge protection up to 2KV
- Excellent shock and vibration resistant
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- 2 years warranty

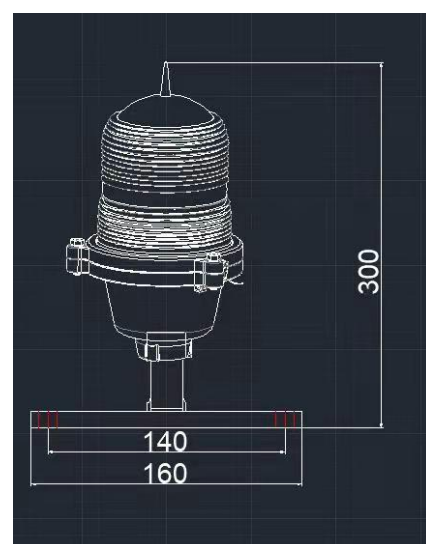
Applications:

- Navigation aid
- Port, dock entrance walkway
- Buoy marking
- Offshore gas& oil platform
- Yacht Clubs
- Boat Houses
- Piers
- Safety & Hazard Prevention



Specifications:

Item		GL100
ELECTRICAL CHARACTERISTIC	Visible distance	>10nm
	Vertical Divergence	10 Degree
	Horizontal out-put	360 Degree
	LED Color	Red, yellow, white, green or blue
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing
	Flash Pattern	Flashing: 20/30/40/60FPM; Default: 40FPM; Steady burning
	Flash duration	670ms
	Photocell sensitivity	70-100 Lux
POWER SUPPLY	Input voltage	85-265VAC, 50/60 Hz;12VDC; 24VDC;30-60VDC;
	Power consumption	8W (Steady burning)
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilize
	Body	Die-casting Aluminum
	IP Ingress	IP67
	Weight	3KG
	Operating Temperature	-40°C ~ +55°C
	Storage Temperature	-40°C ~ +70°C
	Wire Connection mode	Pre wired
	Relative humidity	0-95% RH non-condensing
	Wind speed	Up to 150mph(240kph)
OTHERS	Warranty	2 years
	Optional	Flashing pattern(20--60FPM) Built-in photocell



Mounting dimension(mm)

Advantages:



Installation and operation

- ① Secure the light on a smooth surface which has enough strength.
- ② When installation, please stay away the nearby light source, at the same time, ensure the photocell do not cover by the near object.
- ③ Make sure the power supply can match the rated power of light before connecting.
- ④ Connect the power cable to the prewire of the lamp base according to the marking of the wire
- ⑤ Check whether the power cables are connected correctly before power on.

Description:

Our EX-HB20 Explosion Proof Solar Marine Light is specifically engineered to withstand hazardous and potentially explosive atmospheres. It is built with high-quality casting aluminum materials that are resistant to corrosion, extreme temperatures, and harsh weather conditions, making it perfect for offshore platforms, oil rigs, and other marine structures. Its explosion-proof design ensures that it can operate safely in environments where flammable gases, vapors, and dust may be present, providing peace of mind for workers and operators in these challenging settings.

Equipped with a high-efficiency solar panel, this marine light harnesses the power of the sun to charge its built-in battery, eliminating the need for external power sources and reducing operational costs. This eco-friendly approach not only saves on energy expenses but also reduces carbon emissions, making it a sustainable and environmentally conscious lighting solution for marine applications.

It also features a bright and long-lasting LED light that provides excellent visibility, enhancing safety and security for marine operations during nighttime hours or low-visibility conditions. Its reliable performance and low maintenance requirements make it an ideal choice for remote and inaccessible locations where regular maintenance is difficult or costly.

In addition, this marine light is easy to install and can be quickly deployed without the need for complex wiring or infrastructure, saving time and resources during the setup process. Its compact and sturdy design allows for flexible mounting options, ensuring that it can be easily integrated into existing marine structures and tailored to specific lighting needs.

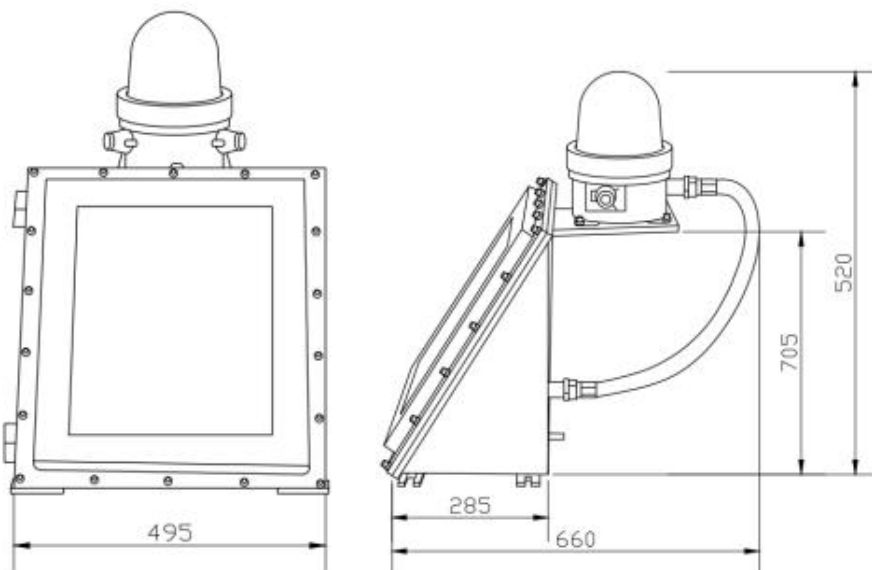
Major functions & features

- High quality optics for excellent beam spread control.
- Ultra-light LEDs, energy saving.
- Self-contained without outside power supply.
- Maximum visibility distance 12KM.
- Once fully charged, it can work for up to 7-8 days when the weather is cloudy & rainy.
- All hardware of the light are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free.
- Automatically turn on and off the light.
- Shock and vibration resistant.
- Corrosion resistant and UV stable polycarbonate housing.
- Ease of mount, mount accessories available.
- No wiring job, nice & easy installation.
- Corrosion resistant lamp & housing-suitable for off-shore use.



Specification:

Item		EX-HB20
ELECTRICAL CHARACTERISTIC	Visible distance	>5-7NM
	Vertical Divergence	10 Degree
	Horizontal Divergence	360 Degree
	LED Color	Optional red ,white, yellow, green and blue
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Power consumption	20W
	Photocell sensitivity	70-100 Lux
	Autonomy	20 days(flashing), 10 days(steady burning)
	Alarm type:	NO & NC, dry contact relay(optional)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 18V 25W
	Solar Efficiency	14%
	Battery capacity	VRLA, 12V/7.5Ah
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Tempered glass
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP66
	Weight	50KG
	Operating Temperature	-30°C ~ +70°C
	Storage Temperature	-30°C ~ +55°C
	Suitable areas:	ExdeIICT6/DIP A20, TA, T6
	Corrosion grade	WF1*WF2
Wind speed	Up to 150mph(240kph)	
OTHERS	Warranty	1 year



Product Advantages

Details show the quality



01

Toughened Glass Lamp housing

Polycarbonate transparent cover combines with Toughened Glass lamp housing can work normally in harsh environments such as exposure to rain, snow and hail.

02

Several Wiring Cable Glands

Several wiring cable glands in all directions are convenient to wire



03

Die Casting Aluminum Base

Constructed with durability aluminum alloy base, capable of withstanding harsh environmental conditions and temperature extremes



04

High brightness LED Bulb

High-quality LED technology, offering an energy-efficient and long-lasting solution



05

Solar Panel

The solar panels capture and store sunlight during the day, allowing the light to function efficiently throughout the night



06

Built in Photocell

Specially designed photocell which can switch ON/OFF the light automatically at dawn and dusk



Product Description:

Our EX-HB40 Explosion Proof Solar Marine Light is specifically engineered to withstand hazardous and potentially explosive atmospheres. It is built with high-quality casting aluminum materials that are resistant to corrosion, extreme temperatures, and harsh weather conditions, making it perfect for offshore platforms, oil rigs, and other marine structures. Its explosion-proof design ensures that it can operate safely in environments where flammable gases, vapors, and dust may be present, providing peace of mind for workers and operators in these challenging settings.

Equipped with a high-efficiency solar panel, this marine light harnesses the power of the sun to charge its built-in battery, eliminating the need for external power sources and reducing operational costs. This eco-friendly approach not only saves on energy expenses but also reduces carbon emissions, making it a sustainable and environmentally conscious lighting solution for marine applications.

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In addition, this marine light is easy to install and can be quickly deployed without the need for complex wiring or infrastructure, saving time and resources during the setup process. Its compact and sturdy design allows for flexible mounting options, ensuring that it can be easily integrated into existing marine structures and tailored to specific lighting needs.

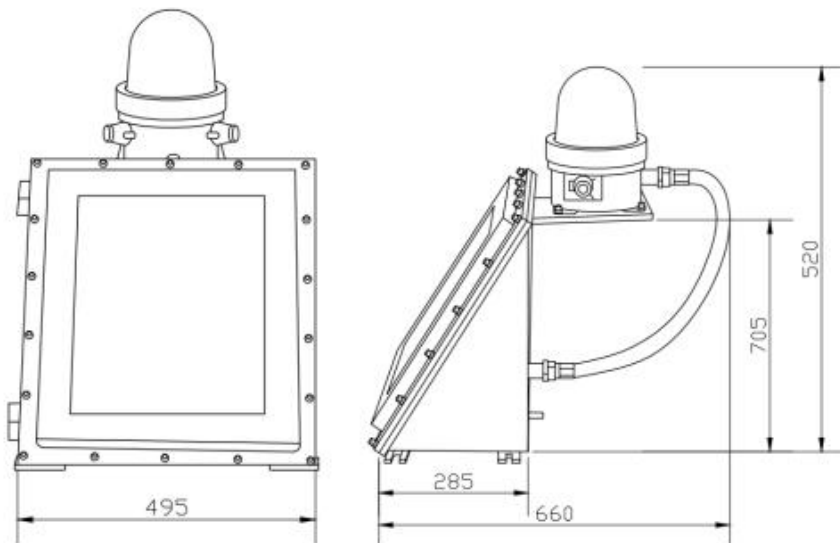
Features & Benefits:

- High quality optics for excellent beam spread control.
- Ultra-light LEDs, energy saving.
- Self-contained without outside power supply.
- Maximum visibility distance 16KM.
- Once fully charged, it can work for up to 7-8 days when the weather is cloudy & rainy.
- All hardware of the light are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free.
- Automatically turn on and off the light.
- Shock and vibration resistant.
- Corrosion resistant and UV stable polycarbonate housing.
- Ease of mount, mount accessories available.
- No wiring job, nice & easy installation.
- Corrosion resistant lamp & housing-suitable for off-shore use.



Specification:

Item		EX-HB40
ELECTRICAL CHARACTERISTIC	Visible distance	>7-10NM
	Vertical Divergence	10 Degree
	Horizontal Divergence	360 Degree
	LED Color	Optional red ,white, yellow, green and blue
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Power consumption	40W
	Photocell sensitivity	70-100 Lux
	Autonomy	20 days(flashing), 10 days(steady burning)
	Alarm type:	NO & NC, dry contact relay(optional)
POWER SUPPLY	Solar panel	Solar module, mono-crystalline silicon 18V 25W
	Solar Efficiency	14%
	Battery capacity	VRLA, 12V/7.5Ah
	Battery replacement	Replaceable
MECHANICAL STRUCTURE	Lens	Tempered glass
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP66
	Weight	50KG
	Operating Temperature	-30°C ~ +70°C
	Storage Temperature	-30°C ~ +55°C
	Suitable areas:	ExdellCT6/DIP A20, TA, T6
	Corrosion grade	WF1*WF2
	Wind speed	Up to 150mph(240kph)
OTHERS	Warranty	1 year



Product Advantages

Details show the quality



01

Toughened Glass Lamp housing

Polycarbonate transparent cover combines with Toughened Glass lamp housing can work normally in harsh environments such as exposure to rain, snow and hail.

02

Several Wiring Cable Glands

Several wiring cable glands in all directions are convenient to wire



03

Die Casting Aluminum Base

Constructed with durability aluminum alloy base, capable of withstanding harsh environmental conditions and temperature extremes



04

High brightness LED Bulb

High-quality LED technology, offering an energy-efficient and long-lasting solution



05

Solar Panel

The solar panels capture and store sunlight during the day, allowing the light to function efficiently throughout the night



06

Built in Photocell

Specially designed photocell which can switch ON/OFF the light automatically at dawn and dusk



Description:

Our EX-RB10 Explosion Proof LED Marine Signal Light is built to withstand extreme conditions, making it perfect for use on ships, oil rigs, and other marine vessels. It is constructed with high quality, corrosion-resistant materials and features a robust design that can withstand impact and vibration. The LED technology used in this signal light offers superior brightness and visibility, ensuring that it can be easily spotted from a distance, even in low visibility conditions.

This marine light is also explosion-proof, making it suitable for use in areas where flammable gases or vapors may be present. Its rugged construction and adherence to strict safety standards make it an essential piece of safety equipment for any marine application. Additionally, the LED technology used in this light is energy-efficient and long-lasting, reducing maintenance costs and ensuring reliable performance for years to come.

The compact and lightweight design of the fixture makes it easy to install and use in various marine applications. It is equipped with a range of mounting options, allowing for versatile placement on different parts of the vessel. Its durable construction and waterproof design make it ideal for use in marine environments where exposure to harsh weather and seawater is unavoidable.

Major functions & features

- High quality optics for excellent beam spread control.
- Ultra-light LEDs, energy saving.
- Maximum visibility distance 9KM.
- All hardware of the light are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free.
- Automatically turn on and off the light (optional) .
- Shock and vibration resistant.
- Corrosion resistant and UV stable polycarbonate housing.
- Ease of mount, mount accessories available.
- Corrosion resistant lamp& housing-suitable for off-shore use.
- Constructed with durable and corrosion-resistant materials
- Can be used in Zone 1,2,21,22,Class I, Zone 1,2,Division 2, Groups A, B, C, D.
- With GPS synchronization function (optional)

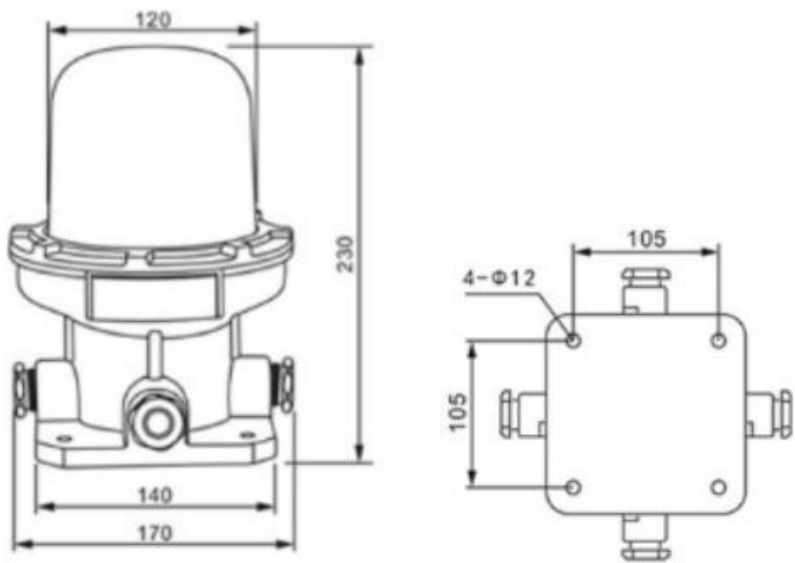


Specification:

Item		EX-RB10
ELECTRICAL CHARACTERISTIC	Visible distance	>3-5NM
	Vertical Divergence	10 Degree
	Horizontal Divergence	360 Degree
	LED Color	Optional red ,white, yellow, green and blue
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Photocell sensitivity	70-100 Lux
POWER SUPPLY	Working voltage	85-265VAC, 9V-30VDC,30-60VDC;
	Power consumption	10W
MECHANICAL STRUCTURE	Lens	Tempered glass
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP66
	Light Weight	2.8KG
	Operating Temperature	-40°C ~ +70°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	ExdBC T6 Gb; Ex tb III T80°C Db
	Corrosion grade	WF1*WF2
	Wind speed	Up to 150mph(240kph)
	Wiring Cable gland	G3/4" entry cable gland, suitable for 10mm-14mm cable
	Light Dimension(mm)	170x230x170
	Mounting hole(mm)	105X105
	Packing dimension(mm)	300×190×200
	OTHERS	Warranty



Mounting Dimension(mm)



Product Advantages

Details show the quality



01

Toughened Glass Lamp housing

Polycarbonate transparent cover combines with Toughened Glass lamp housing can work normally in harsh environments such as exposure to rain, snow and hail.

02

Several Wiring Cable Glands

Several wiring cable glands in all directions are convenient to wire



03

Die Casting Aluminum Base

Constructed with durability aluminum alloy base, capable of withstanding harsh environmental conditions and temperature extremes



04

High brightness LED Bulb

High-quality LED technology, offering an energy-efficient and long-lasting solution



05

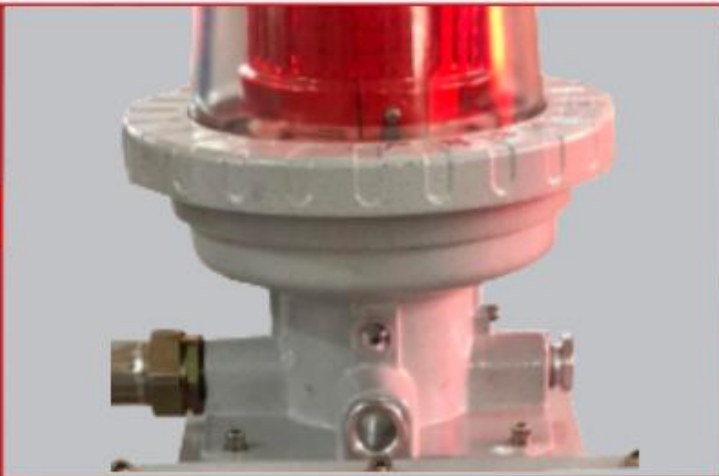
Stainless steel Fasteners

All fasteners of the light are made of corrosion resistant 304 stainless steel.

06

Built in Photocell

Specially designed photocell which can switch ON/OFF the light automatically at dawn and dusk



Description:

Our EX-RB20 Explosion proof Led Marine Light is designed to meet the illumination of dangerous sites with inflammable gas and dust and meet the harshest environmental specification of gas group hydrogen. It can prevent sparks and high temperature inside the lamp to ignite the combustible gas and dust in the surrounding environments.

The fixture is built to withstand the harsh and corrosive marine conditions, making it an ideal choice for use on ships, oil rigs, and offshore platforms. It is constructed with high-quality, durable materials that are resistant to water, salt, and vibrations, ensuring long-lasting performance in even the most demanding marine environments.

The energy-efficient LED technology delivers a powerful and consistent beam of light, making it easier for other boats to spot you from a distance. With a bright and long-lasting illumination, you can navigate through the dark waters with confidence, knowing that your presence is clearly visible to others. The light is also designed to be maintenance-free, reducing the need for costly and time-consuming bulb replacements and ensuring consistent performance over the long term.

Installation is a breeze with our marine light, as it is designed to seamlessly integrate into your boat's existing electrical system. Its compact and sleek design adds a modern touch to your vessel, without compromising on functionality and performance.

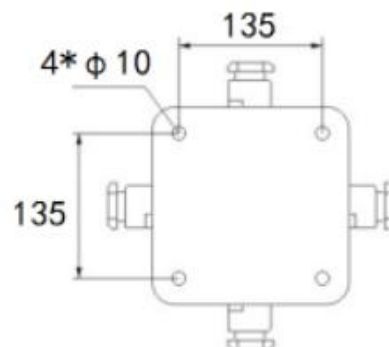
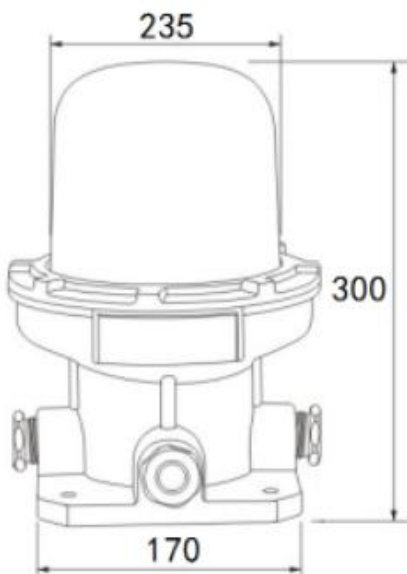
Major functions & features

- High quality optics for excellent beam spread control.
- Ultra-light LEDs, energy saving.
- Maximum visibility distance 12KM.
- All hardware of the light are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free.
- Automatically turn on and off the light (optional) .
- Shock and vibration resistant.
- Corrosion resistant and UV stable polycarbonate housing.
- Ease of mount, mount accessories available.
- Corrosion resistant lamp& housing-suitable for off-shore use.
- Constructed with durable and corrosion-resistant materials
- Can be used in Zone 1,2,21,22,Class I, Zone 1,2,Division 2, Groups A, B, C, D.
- With GPS synchronization function (optional)



Specification:

Item		EX-RB20
ELECTRICAL CHARACTERISTIC	Visible distance	>5-7NM
	Vertical Divergence	10 Degree
	Horizontal Divergence	360 Degree
	LED Color	Optional red ,white, yellow, green and blue
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Photocell sensitivity	70-100 Lux
POWER SUPPLY	Working voltage	85-265VAC, 9V-30VDC,30-60VDC;
	Power consumption	20W
MECHANICAL STRUCTURE	Lens	Tempered glass
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP66
	Light Weight	3KG
	Operating Temperature	-40°C ~ +70°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	ExdellCT6/DIP A20, TA, T6
	Corrosion grade	WF1*WF2
	Wind speed	Up to 150mph(240kph)
	Wiring Cable gland	G3/4" entry cable gland, suitable for 10mm-14mm cable
	Light Dimension(mm)	170X300X235
	Packing dimension(mm)	300×200×190
	OTHERS	Warranty



Product Advantages

Details show the quality



01

Toughened Glass Lamp housing

Polycarbonate transparent cover combines with Toughened Glass lamp housing can work normally in harsh environments such as exposure to rain, snow and hail.

02

Several Wiring Cable Glands

Several wiring cable glands in all directions are convenient to wire



03

Die Casting Aluminum Base

Constructed with durability aluminum alloy base, capable of withstanding harsh environmental conditions and temperature extremes



04

High brightness LED Bulb

High-quality LED technology, offering an energy-efficient and long-lasting solution



05

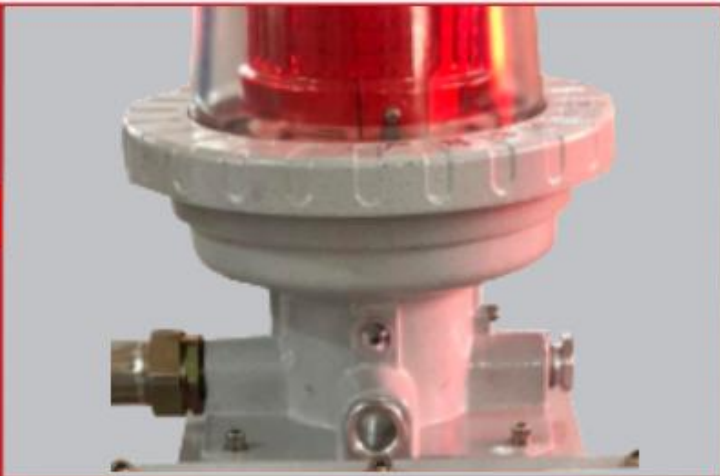
Stainless steel Fasteners

All fasteners of the light are made of corrosion resistant 304 stainless steel.

06

Built in Photocell

Specially designed photocell which can switch ON/OFF the light automatically at dawn and dusk



Description:

Our EX-RB40 explosion-proof LED marine light is designed to withstand hazardous and potentially explosive atmospheres at sea and it is built to ensure the safety and reliability of your vessel.

This marine light features high-quality LED bulbs that provide bright and efficient illumination, allowing for clear visibility even in the darkest of waters. The explosion-proof design ensures that the light remains operational even in the event of a potential explosion, making it an essential safety feature for any marine vessel.

Constructed with durable and corrosion-resistant materials, our marine light is built to withstand the harsh and corrosive marine environment. Whether you're navigating through choppy waters or braving extreme weather conditions, this light will continue to perform at its best, ensuring that you can always see and be seen on the water.

Installation of this light is quick and easy. With a compact and sleek design, this light can be easily integrated into any boat or marine vessel without compromising its aesthetic appeal. Its low power consumption also means that you can enjoy long-lasting illumination without draining your boat's battery.

Our EX-RB40 is not only enhances the safety and visibility of your vessel but also contributes to a more sustainable marine environment. The energy-efficient LED bulbs consume less power, reducing your carbon footprint while providing reliable lighting for your marine activities.

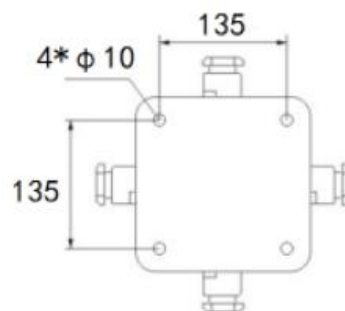
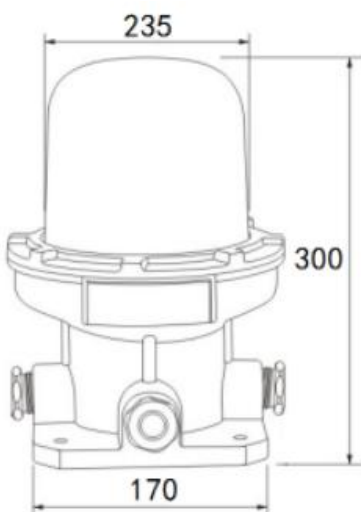
Major functions & features

- High quality optics for excellent beam spread control.
- Ultra-light LEDs, energy saving.
- Maximum visibility distance 16KM.
- All hardware of the light are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free.
- Automatically turn on and off the light (optional) .
- Shock and vibration resistant.
- Corrosion resistant and UV stable polycarbonate housing.
- Ease of mount, mount accessories available.
- Corrosion resistant lamp& housing-suitable for off-shore use.
- Constructed with durable and corrosion-resistant materials
- Can be used in Zone 1,2,21,22,Class I, Zone 1,2,Division 2, Groups A, B, C, D.
- With GPS synchronization function (optional)



Specification:

	Item	EX-RB40
ELECTRICAL CHARACTERISTIC	Visible distance	>7-10NM
	Vertical Divergence	10 Degree
	Horizontal Divergence	360 Degree
	LED Color	Optional red ,white, yellow, green and blue
	LED Lifespan	100,000 Hours
OPERATION	Woke mode	Flashing or steady burning
	Flash Pattern(optional)	Flashing: 20/30/40/60FPM; Default: 40FPM;
	Photocell sensitivity	70-100 Lux
POWER SUPPLY	Working voltage	85-265VAC, 9V-30VDC,30-60VDC;
	Power consumption	40W
MECHANICAL STRUCTURE	Lens	Tempered glass
	Body	Aviation yellow powder-coated extruding aluminum
	IP Ingress	IP66
	Light Weight	4.4KG
	Operating Temperature	-40°C ~ +70°C
	Storage Temperature	-40°C ~ +55°C
	Suitable areas:	ExdBC T6 Gb; Ex tb III T80°C Db
	Corrosion grade	WF1*WF2
	Wind speed	Up to 150mph(240kph)
	Wiring Cable gland	G3/4" entry cable gland, suitable for 10mm-14mm cable
	Light Dimension(mm)	300x235x170
	Mounting hole(mm)	135X135
	Packing dimension(mm)	360×250×200
OTHERS	Warranty	1 year



Product Advantages

Details show the quality



01

Toughened Glass Lamp housing

Polycarbonate transparent cover combines with Toughened Glass lamp housing can work normally in harsh environments such as exposure to rain, snow and hail.

02

Several Wiring Cable Glands

Several wiring cable glands in all directions are convenient to wire



03

Die Casting Aluminum Base

Constructed with durability aluminum alloy base, capable of withstanding harsh environmental conditions and temperature extremes



04

High brightness LED Bulb

High-quality LED technology, offering an energy-efficient and long-lasting solution



05

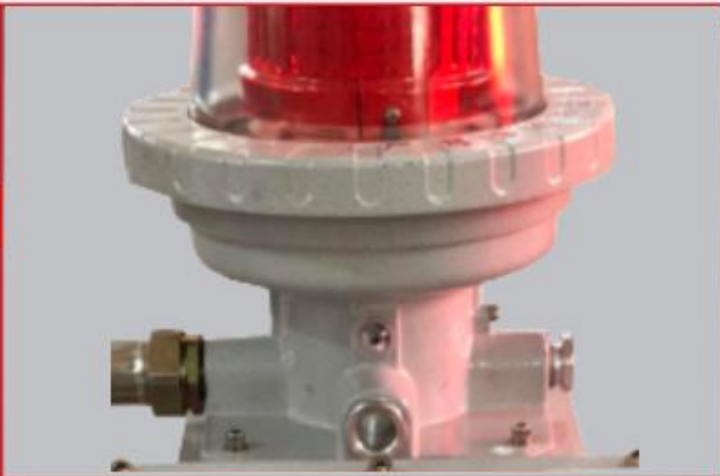
Stainless steel Fasteners

All fasteners of the light are made of corrosion resistant 304 stainless steel.

06

Built in Photocell

Specially designed photocell which can switch ON/OFF the light automatically at dawn and dusk



Applications

Production site

