

SHBL series autonomous marine navigation lights and buoys

Product description

Solar radiation energy is converting into different types of energy at the surface of our planet: wind energy, river flow energy, sea waves' energy. Sea waves' energy has a great utilization potential because of the high energy density. Density of the energy flux in sea waves' is two orders high than the energy flux in wind.

SHBL is a series of marine navigation lighting and marking maintenance free product. SHBL are the lightings and SHB are the complete assembled buoys. They have different sizes, colors and functionality.

It suitable for marking waterways, swimming area of the beaches, yacht docking areas, fish farms, fish nets, for the lifebuoys, anchor buoys, decorative purposes.

Features and advantages:

1. Hybrid power system provides weather-independent power supply
2. Build-in waves energy harvester. No more solar dependence.
3. Traditional solar panel onboard
4. High protection against harsh environments. UV-stable polycarbonate shell, waterproof and shock resistant.
5. Super bright LED light, up to 1 km visibility in the darkness.
6. Can be seen 360° at long distances.
7. Simple installation on different types of buoys.
8. Light-sensitive. Turns on in darkness automatically, turns off in the daylight.
9. Long lifetime.
10. Radio-synchronized flashing (optional). Can synchronously work in long buoy chains.
11. Available in different colors. Compliance with IALA colors (red, white, yellow, green, blue)
12. Completely self-consistent, no wires, no maintenance.



SHBL-15X-120



SHBL-30X-150



SHB-65X



SHB-30X

SHBL		Description
Model:		SHBL-15X-120, SHBL-30X-150
Specifications	AB-SU1800R	Height:14CM diameter:18CM
	AB-SU1800Y	
	AB-SU1800RB	
Wave energy harvester		5V 300 mA 1,5W
Solar Panel	Types and sizes	5V 170MA 88*88MM
Battery	Quantity	2pcs 3.2V lithium iron phosphate battery
	Life cycle	500charge and discharge times
LED	Frequency	9.26Hz
	Size	Ø5
	Quantity	8Red /8 yellow/8red+8blue
	Color	Red / yellow/red+blue
	Strobe	Lights flash
After full charged, the using time		>40h
Charging time		6h
Brightness under the light control		300LUX
Work life		3-5Years
Material:		Shell parts:PC ; the Base: ABS
Visual distance:		1000Meters (in darkness)
Product features		Impact-resistant, durable.
		Hybrid waves and solar charging.
		Light-control mode, Flash automatically at night, automatically closed during the day.
SHB		Description
Model:		SHB-65X, SHB-30X
Specifications	AB-SU1230R	Height:10CM diameter:12.3CM
	AB-SU1230Y	
	AB-SU1230RB	
Wave energy harvester		5V 300 mA 1,5W
Solar Panel	Types and sizes	5V 69MA 53*53MM
Battery	Quantity	2pcs 3.2V lithium iron phosphate battery
	Life cycle	500charge and discharge times
LED	Frequency	9.26Hz
	Size	Ø5
	Quantity	6Red /6yellow/6red+6blue
	Color	Red / yellow/red+blue
	Strobe	Lights flash
After full charged, the using time		>30h
Charging time		15h
Brightness under the light control		300LUX
Work life		3-5Years
Material:		Shell parts:PC ; the Base: ABS
Visual distance:		200Meters (in darkness)
Product features		Impact-resistant, durable.
		Solar charging.
		Light-control mode, Flash automatically at night, automatically closed during the day.

