

SOLAR-X-6NM

3NM~6NM-Selfcontained Marine Lartern



- SOLAR-X-6NM series is a self-contained lantern powered by solar energy and lithium battery with integrated structure design.
- It has the characteristics of low power consumption, easy maintenance and aging resistance.
- It can be widely used in inland rivers, Coastal and harbor light buoys.
- This series of lamps is composed of LED point light source, lens, solar panel and weather-resistant material base.
- The lamp can easily realize the remote measurement and control of the lantern through the NB-IoT or 4G communication method with DIMON Marine Monitoring system App.
- The GPS high-precision clock is used to realize the synchronous flash function;
- The range is >6nautical miles, the vertical divergence angle is 18 degrees, and the horizontal divergence angle is 360 degrees.

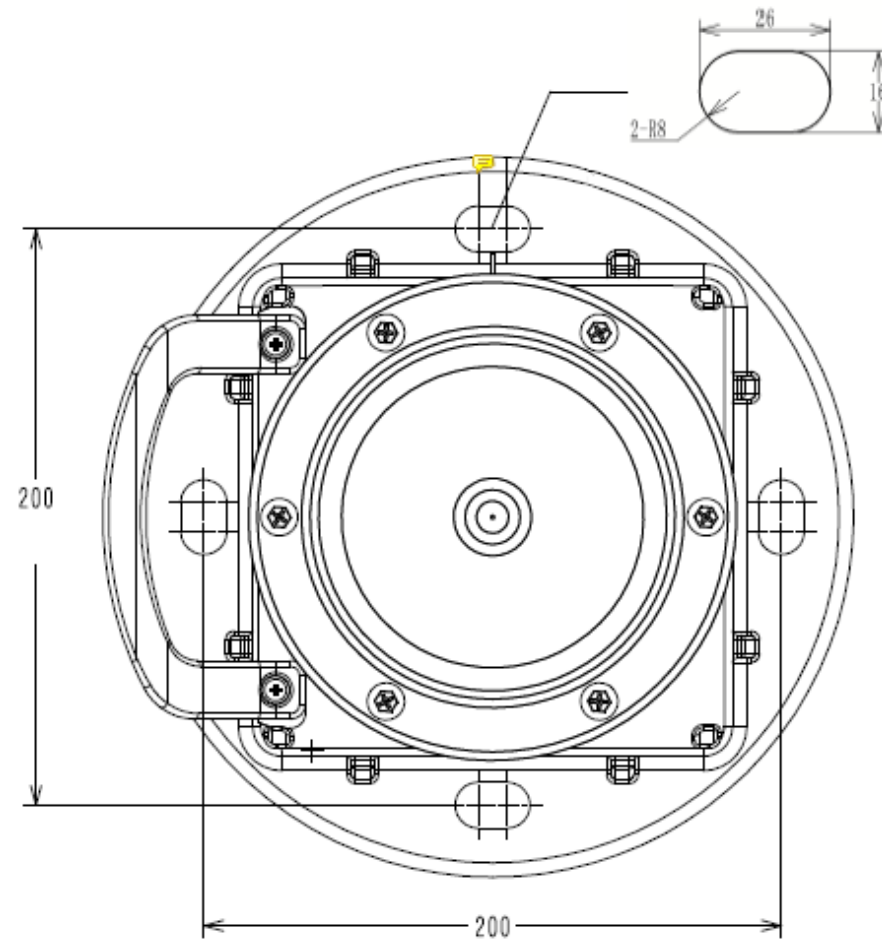
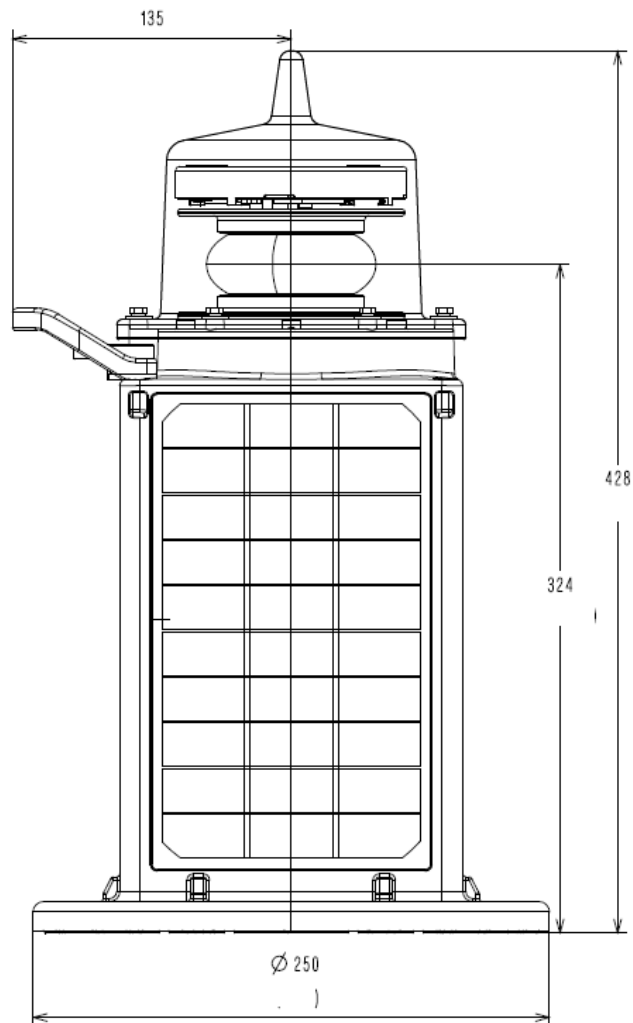
Technical Data

Features 功能

- Long Life -LED Light Source
- Optional GPS synchronisation module
- 15 levels of luminous intensity adjustment to adapt to different range requirements.
- Available in all IALA approved colours
- 256 user selectable flash characters and selectable daylight sensor
- Magnetic On/Off Switch for quick deployment and hassle free storage maintenance check
- User selectable power and flash character settings via BLUE Tooth 5.0 up to 40meter
- Optional Control protocol : NB-IoT for Long Distance Wireless control
- Working hours lasting up to 30 days in bad weather (1:1 ratio of light to dark).
- Optional GNSS synchronized-control flash function by GPS or BDS
- Optional 4G wireless DIMON Monitoring system for comprehensive fault alarm and status monitoring.
- Ingress Protection: IP68

Selectable Range 可選範圍	• 3 nautical miles (T=0.74) 3 海里 (T=0.74) • 4 nautical miles (T=0.74) 4 海里 (T=0.74) • 5 nautical miles(T=0.74) 5海里 (T=0.74) • 6 nautical miles(T 0.74) 6海里 (T 0.74)
Available Colours 可選顏色	• Red 紅 Max Intensity : 180cd • Green 綠 Max Intensity : 255cd • Yellow黃 Max Intensity : 214cd • White 白 Max Intensity : 251cd
Visibility能見角	360° horizon (omnidirectional)360° 地平線 (全向)
Vertical Divergence 垂直發散角度	8°±0.3
Flash Codes 燈質閃爍編號	Up to 256 codes IALA , field selectable
Synchronisation同步	• GPS-Global Positioning System全球定位系統 or 或 • BDS-BeiDou Navigation Satellite北斗導航衛星
Daylight (Lux) Sensor 日光傳感器	Default 300Lux (100~1000Lux adjustable) 默認 300Lux100~1000Lux 可調)
LED Lamp Input Voltage LED燈輸入電壓	DC7.3V
Solar Power 太陽能功率	20.8W (4 x 5.2W) Solar Panels 20.8W4 x 5.2W太陽能電池板
Battery Capacity 電池容量	7.4 V 49AH 357.7Wh Lithium Ion (Comply IEC 62133-2 ; UL1642 , UN38., MSDS) 7.3 V 49AH 鋰離子電池 (通過以下測試標準 IEC 62133-2 ; UL1642 , UN38.,
Duration 耐用時間 Working hours on rainy days 雨天工作時間	Standard configuration for 30 days @ ON/OFF : Ratio 1:1 標準配置 30 天 @ 明暗設計 比例 1:1
Control Protocol Selection: 控制協議選擇:	• BLUE Tooth 5.0 up to 40meter for IALA Flasing Code, Lux Sensor and Distance setting. Battery monitoring by APP software • 藍牙 5.0 最遠 40 米, 用於IALA閃光代碼、勒克斯感光照度和距離設置 都可以通過APP軟件監控電池 • NB-IoT Overvoltage and Undervoltage, Fault, Position offset report by PC IOT Software • 電腦軟件透過4G/ NB-IoT協議做燈具的 過壓和欠壓、故障、位置偏移監測回報 • 4G Wireless control system: Overvoltage and Undervoltage, Fault, Position offset report by PC 4G Software • 電腦軟件透過 4G協議做燈具的 過壓和欠壓、故障、位置偏移監測回報
Magnetron Switch 磁控開關	For Turn On and Turn OFF Lantern Power 用於打開和關閉燈具電源
Net Weight 淨重	5.3KG
Dimension 尺寸	Dia 250mm x H: 427.5mm
Operating Temperature Range 工作溫度範圍	-35° to +60°C
Ingress Protection-防護等級	IP 68
Housing materials外殼材料	UV resistant molded polycarbonate 抗紫外線模塑PC
Mech impact protection機械衝擊保護	IK08
Certification	    

Technical Drawing



Unit: mm

Technical Drawing AIS Version

DIMON
TECHNOLOGY

