



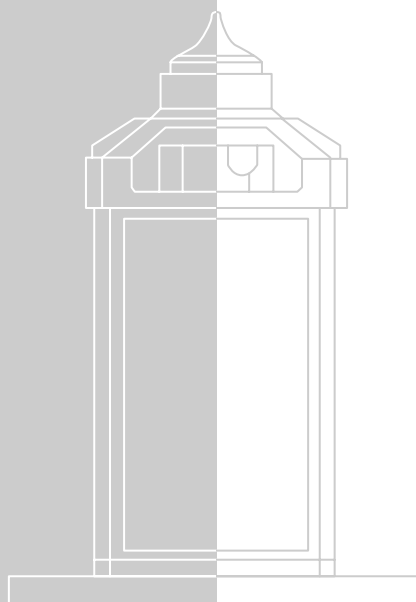
SELF-CONTAINED LANTERN

SolaMAX-3A

1-3 nm

APPLICATION

For marking on buoys of waterways and ports



The SolaMAX-3A is a self-contained, compact solar lantern with ranges of up to 3 nm. The ultra-low power and compact design makes it the ideal lantern for buoys, docks, costal, aquaculture fields, beacon towers and for marking waterways, inland waters and ports in northern latitudes and areas of low solar radiation.

High-efficient and compact solar arrays were selected, it combines with smart charging management system to provide a reliable power source.

FEATURES

- ease of maintenance
- quick plug-in type lithium-ion battery pack (1 to 3 packs) for different operating requirement
- with Bluetooth 4.2 communication protocol, capable to communicate remotely with BRC App installed in any Android devices, effective operation range up to 50 m radius from 360 degree of the lantern
- BRC App is a complete remote control, monitor, data acquisition and display App pre-installed in selected Android cell phone (via Bluetooth)
- position reporting and multi lights synchronization via built-in GPS module
- alarms including over / under voltage, light failure, off-position, abnormal temperature and humidity, collision and warnings that inferred from the data available





TECHNICAL SPECIFICATIONS

Effective range	≥ 3 nm @ T=0.74
Quiescent current	< 10 mA
Dynamic power	< 1 W
Flash code	256 types, adjustable
Vertical divergence	> 8°
Light color	red, yellow, green, white (according to IALA guideline E-200-1)
Sunswitch threshold	300 Lux (100-2000 Lux, adjustable)
Remote control & monitoring	short distance: Bluetooth 4.2 long distance: GPRS, GSM, CDMA, BDS, NB-IOT
Positioning	GPS, BDS
Synchronization	GPS
Alarm	over / under voltage, light failure, off-position, abnormal temperature and humidity, collision etc.
Degree of protection	IP66 / IP68 (according to DIN EN 60529)
Photovoltaic power	4 x 3.5 W

Battery type	rechargeable Lithium-ion packs (plug-in type)
Battery voltage	3.7 V
Battery capacity	1 battery pack: 19 Ah (57.72 Wh) 2 battery packs: 38 Ah (115.44 Wh) 3 battery packs: 57 Ah (173.16 Wh)
Battery backup time	8.2 / 16.4 / 24.7 days (based on 14 hrs / day, 50 % duty cycle)
Operating temperature	-35 °C to +60 °C
Weight	1 battery pack: 3.39 kg 2 battery packs: 3.73 kg 3 battery packs: 4.07 kg
Dimension (Ø x H)	236 mm x 340 mm
Focal height	294 mm
Installation dimension	suitable for 200 mm PCD, 3 or 4 bolts (equally distributed over 200 mm PCD), 14 mm diameter holes

