



## SELF-CONTAINED LANTERN

### **SolaMAX-5C**

5 nm

#### APPLICATION

For marking waterways and ports



**SolaMAX-5C is the latest self-contained LED lantern capable to achieve 5 NM visibility range. It was designed and built by gathering the latest trend technologies and intelligence features in a small form factor lantern.**

SolaMAX lantern is compact, ultra-low power, ease of maintenance and able stay tough in the harshest marine environment, its tall version extended the operation in low solar irradiance region.

SolaMAX-5C-AIS is equipped with an internal integrated AIS AtoN unit and GPS module to provide simplified installation and ease of regular / routine maintenance to users and installer.

#### FEATURES

- quick plug-in type lithium-ion battery packs for different operating requirement, fully complied to international requirements for lithium-ion battery transportation
- with convenient external quick charge port for battery maintenance and plug-in type power ON/OFF magnet switch
- equipped with Bluetooth 4.2 communication module with an effective operating range up to 50 m radius from 360 ° of lantern
- built-in GPS module
- available in IALA colours of red, yellow, green and white

#### OPTIONAL

- Type 5CT or 5C-AIS



PARAMETERS	SolaMAX-5C	SolaMAX-5CT	SolaMAX-5C-AIS
Effective range	≥ 5 NM @ T=0.74	≥ 5 NM @ T=0.74	≥ 5 NM @ T=0.74
Operating voltage	7.4 V <sub>DC</sub>	7.4 V <sub>DC</sub>	7.4 V <sub>DC</sub>
Quiescent current	< 10 mA	< 10 mA	< 10 mA
Dynamic power	< 2 W	< 2 W	< 3 W
Flash code	256 types, adjustable	256 types, adjustable	256 types, adjustable
Vertical divergence	> 8 °	> 8 °	> 8 °
Colour	Red, green, yellow, white, blue, yellow / blue alternate flash	Red, green, yellow, white, blue, yellow / blue alternate flash	Red, green, yellow, white, blue, yellow / blue alternate flash
Sunswitch threshold	300 Lux (0-1000 Lux, adjustable)	300 Lux (0-1000 Lux, adjustable)	300 Lux (0-1000 Lux, adjustable)
Remote control & monitoring	Short distance: Bluetooth 4.2 Long distance: GPRS, GSM, CDMA, BDS, NB-IOT, AIS	Short distance: Bluetooth 4.2 Long distance: GPRS, GSM, CDMA, BDS, NB-IOT, AIS	Short distance: Bluetooth 4.2 Long distance: GPRS, GSM, CDMA, BDS, NB-IOT, AIS
Positioning	GPS (default), BDS, GPS+BDS (optional)	GPS (default), BDS, GPS+BDS (optional)	GPS (default), BDS, GPS+BDS (optional)
Synchronization	GPS Sync	GPS Sync	GPS Sync
Alarm	Over / under voltage, light failure, off-position, abnormal temperature and humidity, collision etc.	Over / under voltage, light failure, off-position, abnormal temperature and humidity, collision etc.	Over / under voltage, light failure, off-position, abnormal temperature and humidity, collision etc.
Photovoltaic power	5.7 W x 4	7.0 W x 4	9.0 W x 4
Battery type	Rechargeable Lithium-ion packs (Plug-in type)	Rechargeable Lithium-ion packs (Plug-in type)	Rechargeable Lithium-ion packs (Plug-in type)
Battery capacity	13 / 26 / 39 / 52 Ah	13 / 26 / 39 / 52 Ah	39 / 78 Ah
Battery backup time	22 days (based on 14hrs / day, 15% duty cycle)	22 days (based on 14hrs / day, 15% duty cycle)	27 days
IP Rating	IP67	IP67	IP67
Operating temperature	-15 °C to +60 °C	-15 °C to +60 °C	-15 °C to +60 °C
Weight (lantern, battery pack)	4.92 kg, 0.54 kg	5.15 kg, 0.54 kg	8.67 kg
Dimension	ø 271.8 mm x 439.2 mm	ø 271.8 mm x 489.7 mm	ø 271.8 mm x 600.0 mm
Focal height	355.8 mm	460.3 mm	532.1 mm
Installation dimension	Suitable for 200mm PCD, 3 or 4 bolts (equally distributed over 200mm PCD), 14mm diameter holes	Suitable for 200mm PCD, 3 or 4 bolts (equally distributed over 200mm PCD), 14mm diameter holes	Suitable for 200mm PCD, 3 or 4 bolts (equally distributed over 200mm PCD), 14mm diameter holes

