

SM-2M

SOLAR POWERED LED MARINE LANTERN with range up to 2 NM /3.7 km/ SPECIALLY FOR LATITUDES OVER 40°

THE SM-2M MARKING LANTERN IS A LED LIGHTING SOURCE.
IT IS DESIGNED FOR MARKING AS FOLLOWS:

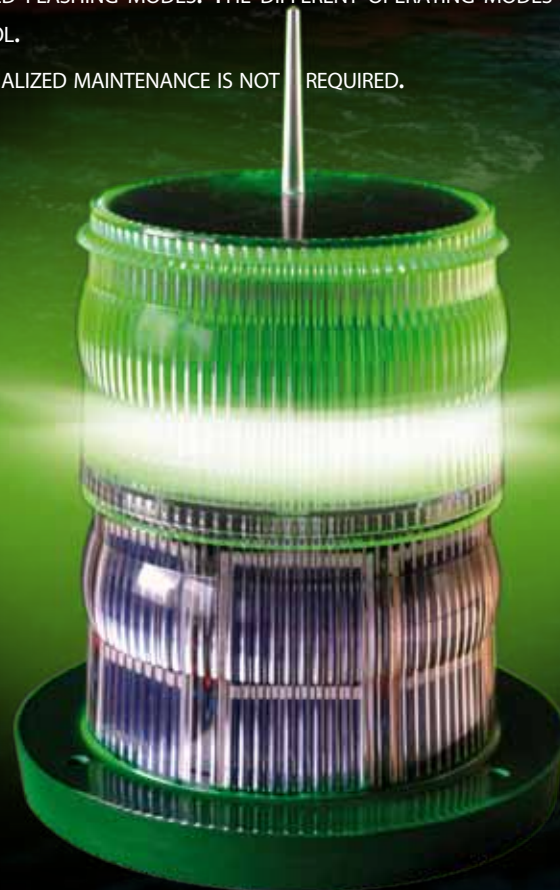
- SAFETY/HAZARD BUOYS;
- NAVIGATION BUOYS;
- RESEARCH BUOYS;
- PRIVATE AIDS FOR NAVIGATION;
- PORT AND MARINA ENTRANCES;
- CANAL MARKERS;
- OFFSHORE OIL AND GAS RIGS;
- PUBLIC PIERS, DOCKS AND MARINE WALKWAYS;
- BOAT AND BARGE TERMINALS;
- BREAKWATERS AND ALL TYPES OF MARINE AND RIVER INFRASTRUCTURE;
- FLOATING MARKERS.

THE LANTERN IS EXCEPTIONALLY COMPACT WITH A SPECIAL CONSTRUCTION FOR MORE EFFICIENT UTILIZATION OF THE SUN LIGHT AT LATITUDES OVER 40°. THE CORPUS IS RESISTANT TO DIFFERENT ATMOSPHERIC INFLUENCES AND IT IS HERMETIC.

IT CAN BE INSTALLED WITHIN MINUTES WITHOUT ANY ADDITIONAL EQUIPMENT AND EXTERNAL POWER SUPPLY.

SM-2M CAN OPERATE IN CONSTANT LUMINOUS MODE AS WELL AS IN DIFFERENT PRELIMINARY SPECIFIED FLASHING MODES. THE DIFFERENT OPERATING MODES CAN BE SET UP BY A REMOTE CONTROL.

A SPECIALIZED MAINTENANCE IS NOT REQUIRED.



SM-2M

ESPECIALLY FOR LATITUDE OVER 40°

MAIN CHARACTERISTICS

For the device

Luminous modes	flashing	constant
Autonomous operation	300 hrs	150 hrs
Necessary number of solar hours for minimal autonomous operation	1.5 hrs	3 hrs
Latitude	60° S to 60° N	
Luminous level	turn on 70 Lux turn off 100 Lux	
Approx life time	6 years	
Operating mode	no maintenance, autonomous	
Operating temperature	-40° C to 80° C	
IP degree / watertight/	IP 67 /NEMA 6/	
Control mode	Intelligent controller	
Overall dimensions	H = 240 mm / Ø = 178 mm	
Weight	1,9 kg	

For the lamp

Nominal night visibility in nautical miles	2 NM
Luminous peak intensity	11.35 cd
Vertical divergency	7°
Horizontal divergency	360°
Flashing modes	255 /standard flash patterns/
Emitted light colours	green, red, amber, white
Chromatic of the colour emitting	covers IALA specifications

For the solar panel

Type	monocrystalline type
Maximal power	1,7 Wp
Effectiveness	16 %

For the battery

Type	lead acid, gell, hermetic, no maintenance
Nominal Voltage	4 V
Capacity	5 Ah

For the mechanical construction

Type of optical material	polycarbonate
Battery ventilation	by a special valve

COMPOSITION OF THE EQUIPMENT

- The following components are included in the construction:
 - LED light source;
 - photovoltaic solar panel;
 - controller;
 - battery;
 - valve for battery ventilation.
- Options:
 - Remote control by infrared programmer
 - Security bolts.

FUNCTIONS OF THE BUILT IN CONTROLLER

- Lamp's switch on/off regarding the luminance
- Setting the luminous intensity mode
- Setting the flash mode
- Administration by remote control
- Optimum charging/discharging batteries control.

Notes:

- All luminous flashing specifications are based on 100% intensity with 12.5% duty cycle.
- Constant operating temperatures over 25°C can influence upon battery lifetime.
- The colour of lighting to be indicated in the order.