

SM-3M

SOLAR POWERED LED MARINE LANTERN with range up to 3 NM /5,6 km/ SPECIALLY FOR LATITUDES OVER 40°

THE SM-3M 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-3M 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-3M

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	2 hrs	4 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 +50° C	
Storage temperature	-40° C to +80° C	
IP degree / watertight/	IP 67 /NEMA 6/	
Control mode	Intelligent controller	
Overall dimensions	H = 325 mm / Ø = 178 mm	
Weight	2,8 kg	

For the lamp

Nominal night visibility in nautical miles	3 NM
Luminous peak intensity	24 cd
Vertical divergence	8°
Horizontal divergence	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	2,5 Wp
Effectiveness	16 %

For the battery

Type	lead acid, gell, hermetic, no maintenance
Nominal Voltage	4 V
Capacity	10 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.