

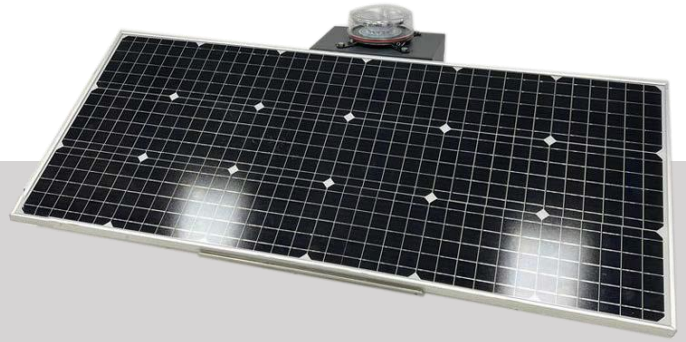


## OWS-S-MIOL-B – MIOL RED

### Medium Intensity Solar Obstruction Light

Medium Intensity Obstacle light for night time marking of structures that present a hazard to aviation. flashes Red visible light.

Solar skid that provides autonomous off-grid operation.



#### Key Features

- Two years warranty
- Compact and Lightweight
- GPS Flash synchronization
- ICAO Type B compliant
- Built-in photocell
- Coated Stainless Steel skid structure
- 100.000 hours design life
- Easy to install

#### Performance characteristics

- 150 hours (12 nights) autonomous operation
- Horizontal beam pattern: 360°
- Flashing: 20 FPM
- Effective intensity: 2.000cd red
- Vertical beam pattern: 3° FWHM

#### Electrical characteristics

- Operating voltage: 12Vdc
- Battery capacity: 56.2Ah
- Battery type: AGM Battery
- Solar Panel: 110 Watt/peak Monocrystalline
- System power consumption: 4,8Watt @ 20 FPM

#### Physical characteristics

- System dimensions: L x W x H: 1200x661x371 mm
- Mounting position: see drawing, next page
- Mounting: 4x Ø12 (M10x50) /excluded
- Weight: 32,1 kg
- Gross Weight: 49 kg
- Design degree of protection: IP65
- Skid material: SS304, powder coated (SS316 optional)
- Operating temperature range: -20 °C/+50 °C

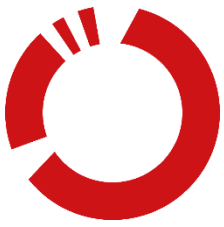


#### Offshore Warning Systems B.V.

Elektraweg 1, 4338 PK, Middelburg, The Netherlands.

KVK: 86564234 | VAT: NL864007577B01

<https://www.offshorewarningsystems.net/>



## Order codes

### Configuration table

ORDER CODE	LIGHT PERFORMANCE		
	DAY	TWILIGHT	NIGHT
OWS-S-MIOL-B -20	OFF	OFF	2.000cd 20FPM Red



#### Offshore Warning Systems B.V.

Elektraweg 1, 4338 PK, Middelburg, The Netherlands.

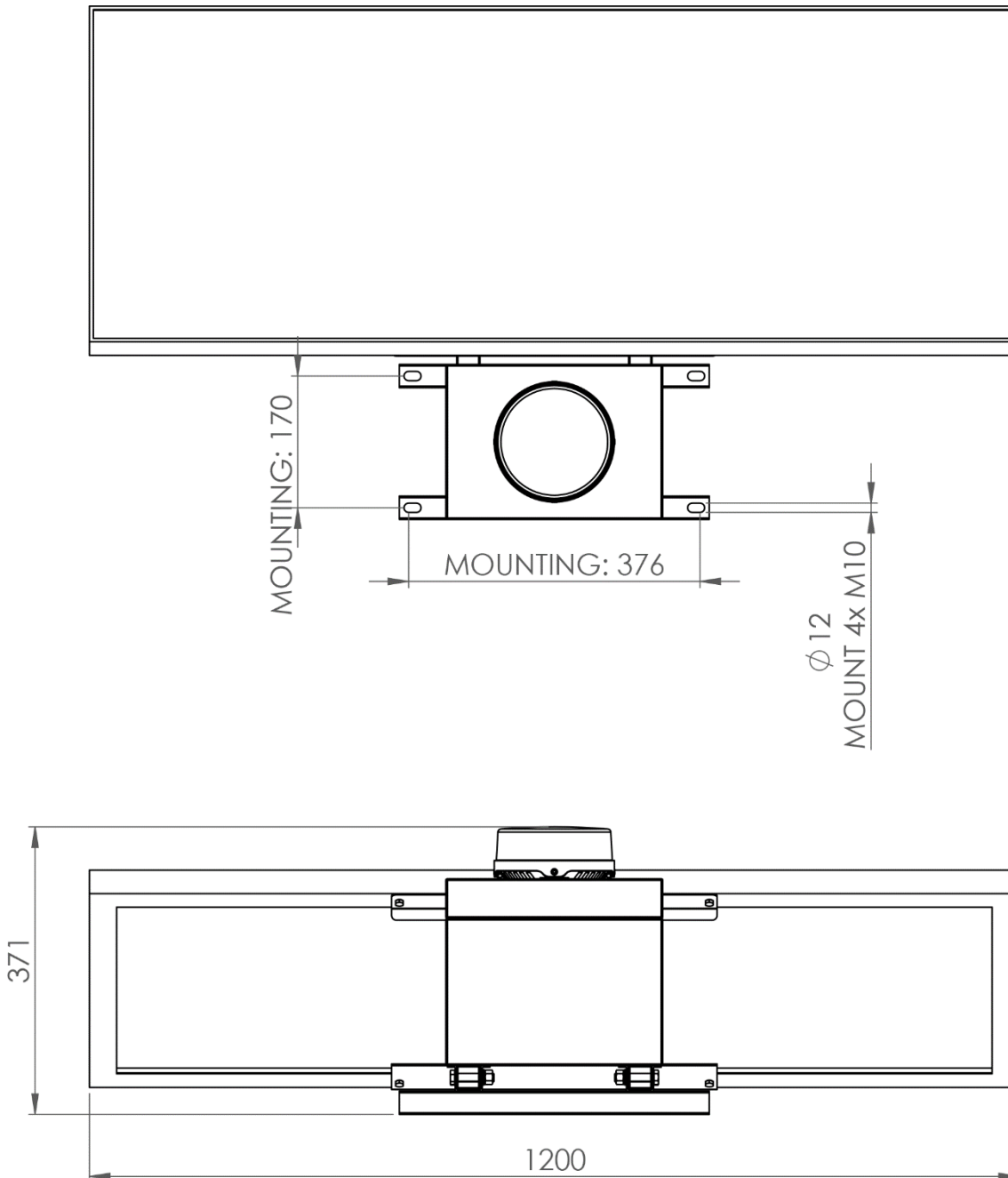
KVK: 86564234 | VAT: NL864007577B01

<https://www.offshorewarningsystems.net/>



## DRAWING

### General dimensions



### Offshore Warning Systems B.V.

Elektraweg 1, 4338 PK, Middelburg, The Netherlands.

KVK: 86564234 | VAT: NL864007577B01

<https://www.offshorewarningsystems.net/>



## Solar behavior

### Calculated for The Netherlands

Provided information is based on the solar panel placement in optimal position towards the south. The data is based on Photovoltaic geographical information system at the European commission. The test location is The Netherlands. Data used are worst case numbers.

PVGIS-5 estimates of solar electricity generation

#### Provided inputs

Latitude/Longitude: 51.494,3.625  
Horizon: Calculated  
Database used: PVGIS-SARAH2  
PV installed: 110 Wp  
Battery capacity: 674.4 Wh

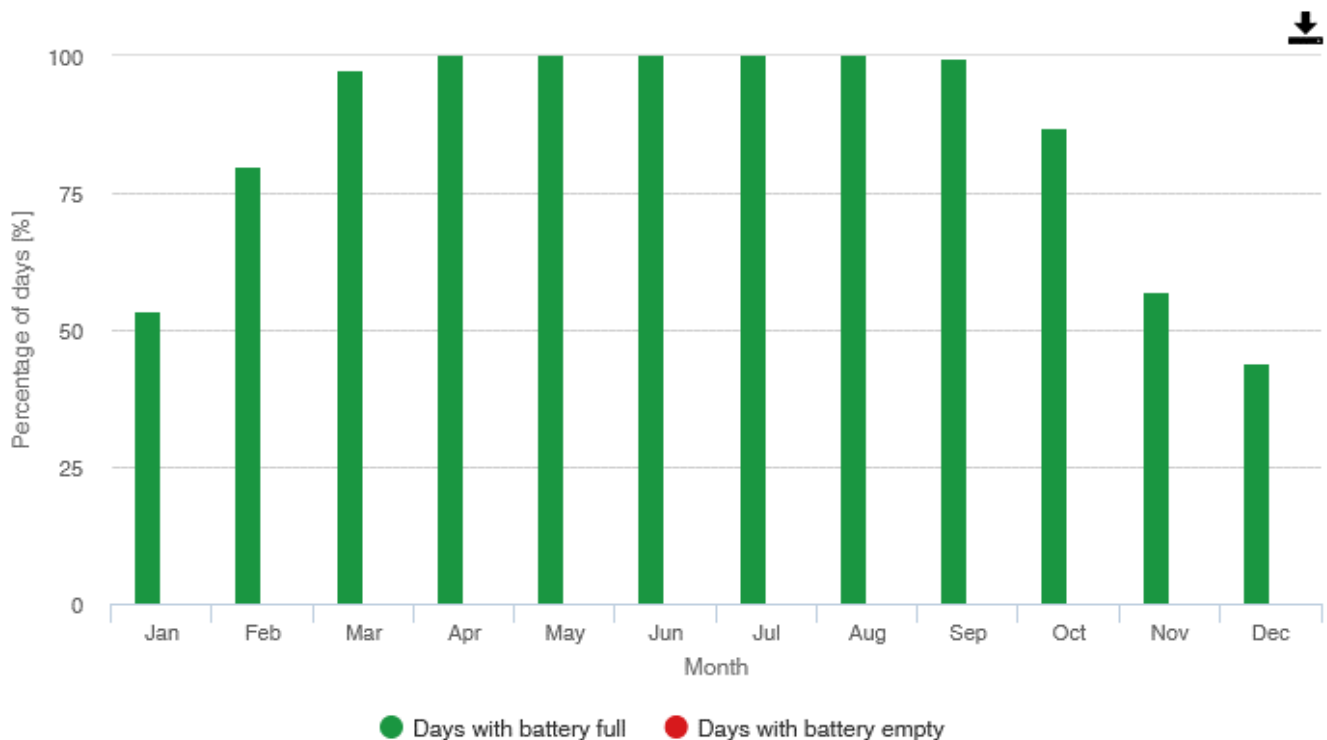
Slope angle: 30 °  
Azimuth angle 0 °  
Cutoff limit: 40 %  
Consumption per day: 35 Wh (17,5 hours of operation)

#### Simulation outputs

Percentage days with full battery: 91.19 %  
Percentage days with empty battery: 0 %

Average energy not captured: 252.3 Wh  
Average energy missing: 13.92 Wh

Battery performance for off-grid PV system



#### Offshore Warning Systems B.V.

Elektraweg 1, 4338 PK, Middelburg, The Netherlands.  
KVK: 86564234 | VAT: NL864007577B01  
<https://www.offshorewarningsystems.net/>