



OWS-S-LIOL – LIOL RED

Low Intensity Solar Obstruction Light

Low Intensity Obstacle light for night time marking of structures that present a hazard to aviation. Steady burning Red visible light.

Solar skid that provides autonomous off-grid operation.



Key Features

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

Performance characteristics

- 144 hours (12 nights) autonomous operation
- Horizontal beam pattern: 360°
- Steady burning
- Effective intensity: 10cd red
- Vertical beam pattern: 8° FWHM

Electrical characteristics

- Operating voltage: 12Vdc
- Battery capacity: 12Ah
- Battery type: AGM Battery
- Solar Panel: 20 Watt/peak Monocrystalline
- System power consumption: 1Watt @ 20 FPM

Physical characteristics

- System dimensions: L x W x H: 463x376x255 mm
- Mounting position: see drawing, next page
- Mounting: 4x Ø10 (M8 /excluded)
- Weight: 12,8 kg
- Gross Weight: 20 kg
- Design degree of protection: IP65
- Skid material: SS304, powder coated (SS316 optional)
- Operating temperature range: -20 °C/+50 °C

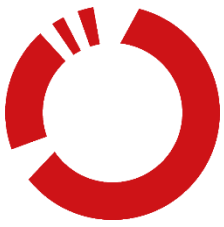


Offshore Warning Systems B.V.

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KVK: 86564234 | VAT: NL864007577B01

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Order codes

Configuration table

ORDER CODE	LIGHT PERFORMANCE		
	DAY	TWILIGHT	NIGHT
OWS-S-LIOL	OFF	OFF	10cd steady Red



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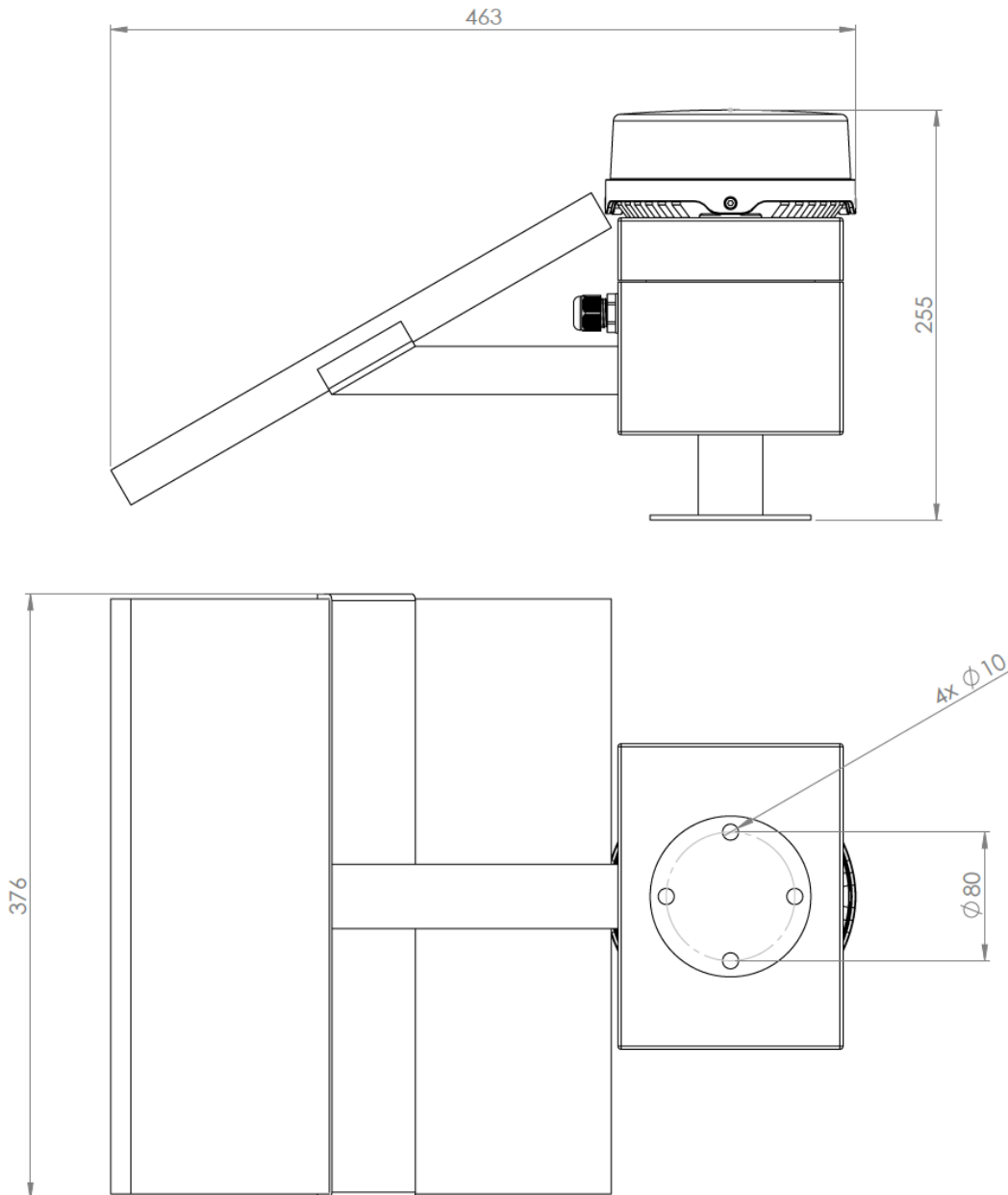
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DRAWING

General dimensions



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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: 20 Wp

Battery capacity: 144 Wh

Slope angle: 30 °

Azimuth angle 0 °

Cutoff limit: 40 %

Consumption per day: 35 Wh (17,5 hours of operation)

Simulation outputs

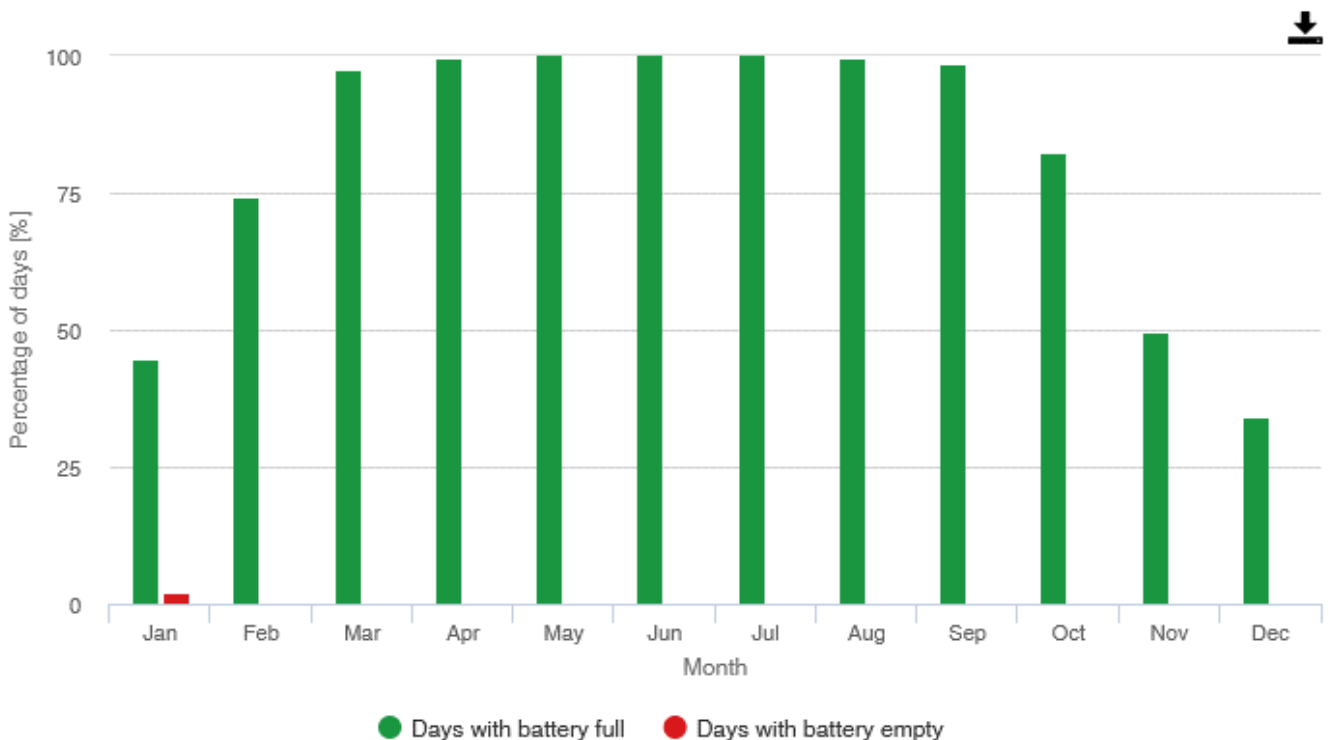
Percentage days with full battery: 81.8 %

Average energy not captured: 45.77 Wh

Percentage days with empty battery: 0.22 %

Average energy missing: 3.25 Wh

Battery performance for off-grid PV system



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