

# Solar Power Obstruction Light 10cd

**The Solar Powered Obstruction Light system is a reliable self-contained air traffic warning light system for towers, bridges, power lines and other high structures.**



Solar Array 10cd systems combine ultra high efficiency components with expert design to give an optimised system performance.

The Solar Array 10cd main components are a red colour aviation light and a solar power system. During the daytime, the solar module charges the battery bank and during night time the light controller automatically activates the obstruction light.

The system is designed for easy installation. Featuring the highest standards of construction, the system is able to withstand the harshest environments and continue to perform efficiently without any regular maintenance.



## Key Features:

- ICAO Type A, fixed obstacle light
- Maintenance free
- No regular lamp replacement due to long life LEDs
- Low investment costs
- Optimised battery charging by MPPT charger
- Easy and fast installation
- Independent from grid power
- Low weight and corrosion free aluminium construction

## Technical specifications of components

### Power system

Solar Cells	High efficiency up to 15%
Module construction	3mm composite back sheet and fluoropolymer cover
System nominal voltage	12Vdc
Battery charger	MPPT (Maximum Power Point Tracking Charger) bulk charging with constant Voltage float charging
DC/DC charger efficiency	Up to 96%
Charger max current	Up to 1A (to discharged battery)
Reverse current	Protected by schottky diode
Battery	VRLA (sealed)
Autonomy time	Up to 7 days @ 20°C
Battery ventilation	Compartment fitted with Gore™ Breather vent
Temperature range	-20°C ...+50°C
Frame	Black painted marine grade aluminium
Weather protection	IP65
Weight	<6.6kg
Amount of lights	One or multiple units **
Installation area	Recommended Latitude ±40° **
Warranty	3 years limited warranty

\* please specify

## Obstruction light

Colour	Aviation red continuous light
Light	Steady burning during night time (flashing option available 20/40/60 fpm)
Switch on light level	200lux/ 400lux
LED	Stabilised light output
Intensity	>10cd (meets ICAO low-intensity, Type A Fixed Obstacle Light)
Average intensity	>20cd @ 10° vertical angle
Vertical radiation pattern	15°
Horizontal output	360°
LED lifetime	>110.000 hours
Degree of protection	IP65
Frame	Anodised marine grade aluminium in black colour
Operating temperature	-55°C...+55°C
Cover	Glass
Weight	1.1kg
Warranty	5 years limited warranty

## Standards

The obstruction light fulfils ICAO International Standards and Recommended Practices: Aerodromes – Annex 14 Volume1, 3<sup>rd</sup> Edition, July 1999, Chapter 6: Low Intensity, Type A Fixed Obstacle Light

## Optional items

- Interconnection cable between power system and light
- Pole mounting set for light (60mm...100mm pole)
- Pole mounting set for power system (60mm or 75mm pole)

# CEL

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