

SOLAR POWERED 10cd LED OBSTRUCTION LIGHT

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

Standards

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

Technical specifications for the Solar 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



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)

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- 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 GoreTM 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 $\pm 40^\circ$
- Warranty 3 years limited warranty
- * please specify

Technical specifications for the 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