

OMS2K-C2016 Solar Powered Medium Intensity Obstruction Light

• ICAO Medium intensity type B



OVERVIEW

OMS2K-C2016 is a solar powered medium intensity red flashing obstruction light, complying with ICAO medium intensity type B.

A solar panel attached to OMS2K's light body is angle-adjustable from 9 to 60 degrees. It enables OMS2K to adapt to different latitudes and collect as much solar energy as possible. Embedded MPPT (Maximized Power Point Tracking) microcontroller maximizes solar power output.

Incorporated SBM (Smart Battery Management) program reduces energy consumption. By detecting ambient solar irradiance, OMS2K can self-adjust LED outputs for extending autonomy. It also protects the VRLA battery pack from over-charging and over-discharging.

Same optical design as OM2K, OMS2K's LED head is deployed with 12 units of ultra-bright OSRAM LEDs. Fresnel lens optimizes photometric performance.

OMS2K is usually installed on towers and other tall structures over 45 meters. In a typical off-grid communication tower or a transmission tower, one OMS2K medium intensity obstruction light on top and 2-4 solar low intensity lights (PL10/PL32/OLS10S/OLS32S) on middle mark the profile of the structure.

FEATURES

- 12 pcs of ultra-bright OSRAM LEDs, reliable light source ensures long lifespan
- Solar panel inclination angle adjustable, range: 9-60 degree
- Integrated MPPT (Maximized Power Point Tracking) for maximizing sunlight collection
- Integrated SBM (Smart Battery Management) for saving energy to extend autonomy
- Fresnel lens provides excellent light distribution
- High-grade VRLA battery provides long lifetime
- Autonomy up to 9 days once fully charged during insufficient sunlight days
- Protective vent for expelling battery gas and reducing condensation
- Automatically off if continue working 18 hours
- IP67 ON-OFF switch for protecting the battery from over-discharging
- GE polycarbonate lenses, UV-stabilized
- Aluminum base with powder painted, corrosion-resistant
- IP67 waterproof protection, silicon gasket enhanced
- Excellent shock and vibration resistant
- A handle on the light shoulder makes carrying and lifting easier for deployment
- GPS available for synchronizing flash

COMPLIANCE

- Obstacle Light Low Intensity Type B, ICAO Annex 14 Volume I July 2016

APPLICATIONS

- Telecommunication Tower
- TV/Radio Tower
- Transmission Tower
- High-rise building
- Industrial Chimney & Cooling Tower
- Tower Crane
- Bridge
- Wind turbine
- Airfield & helipad
- Storage tank & Water tower
- Oil & Gas offshore platform



SPECIFICATIONS

Item		OMS2K-C2016 Specifications
LIGHT OUTPUT	Effective Intensity	2000cd±25%
	Vertical beam	3°
	Horizontal Spread	360°
	Light Source	OSRAM LEDs
	LED Color	Red
	LED Lifespan	100,000 Hours
OPERATION	Flash Pattern	20-60FPM (40FPM as default)
	Autonomy ^(Note1)	9 days
	Suitable areas ^(Note2)	PSH≥4
	ON&OFF Level	70/100Lux
POWER SUPPLY	Solar Panel Type	Solar Module, Mono-Crystalline Silicon
	Solar Panel Efficiency	15%
	Solar Panel Power	20W
	Battery type	VRLA battery
	Battery Capacity	12V/16 Ah
	Battery Replaceability	Yes, replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilized
	Body	Aviation yellow powder-coated extruding aluminum
	Mounting	Four Φ16*25 slot holes on 200mm bottom PCD
	Net Weight	15KG
	Overall Dimension (W*H) ^(Note3)	454mm*446mm
	Light body Dimension (W*H) ^(Note4)	235mm*446mm
	Protection	IP67
	Operation Temperature	-40°C~+55°C
	Operation Humidity	0-95% RH non-condensing
	Wind resistance	Max.240kph
OTHERS	Optional	•GPS •Zigbee Wireless Monitoring
	Warranty	•5 years for light •2 years for battery •10 years for PV

Notes: 1) The days of autonomy indicated in the specs table is once fully charges, how many days the solar light can run during cloudy/rainy days (12 working hours/day), without optional functions.

2) PSH is the abbreviation of Peak Sun Hours which reflects solar radiation. 1 Peak Sun Hour = 1000 W/m² of sunlight. The PSH given in the table is a yearly average value. The more PSH value is, The more solar energy potential is. As PSH value varies in different month, please consult REDDOT to select the safest solar obstruction light.

3) Overall dimension is measured when solar panel is attached to the light body, solar panel is extended to the maximum inclination angle.

4) Light body dimension is measured without solar panel attached.

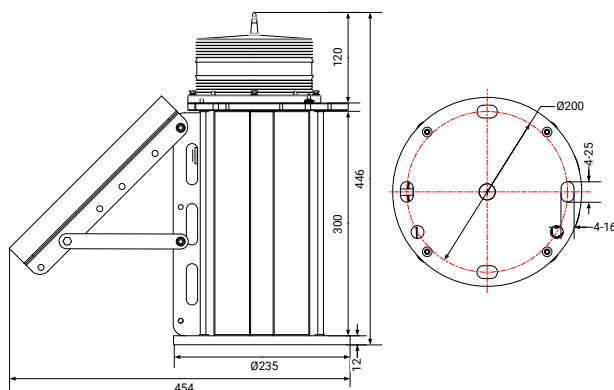
ORDERING CODE

Main P/N	GPS	Zigbee Wireless Monitoring ^(Note)
OMS2K-C2016	[Blank] (without GPS) GPS (with GPS)	[Blank] (without Zigbee module) ZB (with Zigbee module)

Note: CTRW wireless monitoring box is needed to receive signals from solar lights with Zigbee modules.

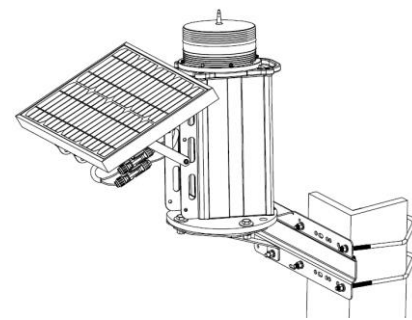
E.g.: OMS2K-C2016-GPS = solar powered medium intensity obstruction light, red flashing 2000cd, with GPS

DIMENSIONS



MOUNTING

• U-bolt mounting



AMP30150S bracket (U-bolt holders) for dia.30-150mm angular/tubular structures