



APPLICATION



Solar medium-intensity light is specialized used on the top of the High Chimney, Wind Turbine, Telecommunication tower, where there is no cable power supply and those facilities which have high requirements on lightning protection, and most time work with low intensity lights light installed on the lower place.

LED Solar Powered Medium-intensity

Aviation Obstruction Light AL-MI-B2(L)

This LED Medium-intensity Aviation Obstruction Light emitting red color (white color is optional), designed for marking top of obstacle which height is more than 45meters.

Ultra high intensity CREE LED is used for the light source ensure the long life experience and good performance. Self-designed reflector is used to converge light, which could reach the standard light intensity with as less as the power consumption.

Compliance

- ICAO Annex 14 Volume 1, Ninth edition, 2022, table 6-1 Medium Intensity Type B / C Obstruction Light
- FAA L-864, FAA L-885
- CAAC MH6012-2015 Aviation obstruction light, MH 5001-2013 Aerodrome technical standards

Features

Electrical

- CREE ultra-high intensity LED as light source saving power consumption and maintenance than incandescent light or halogen lamp

Physical

- Unique design and UV protected polycarbonate reflector for converging light
- UV protection Powder coated bright yellow color base make better visibility
- Base material is die casting aluminum which has strong corrosion resistance, Shock and Vibrations protection
- Self-contained without external power supply, Cable cost saving & cabling job saving, nice & easy installation
- Battery: Lithium ion battery for long life

System design

- Built-in photocell for day/night operation (dusk to dawn operation), automatically turn on when background luminance $< 50\text{cd/m}^2$
- Surge and lightning protection
- GPS device inside for flashing synchronously

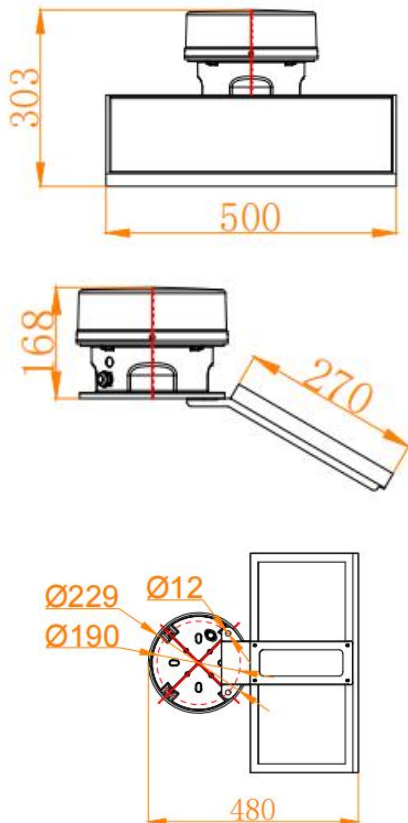
Optional

- Dry contact Alarm output for remote monitoring
- Other Flashing rate (20, 30, 40, 60, Steady mode)
- Infrared LED for pilot using NVG
- Sequentially flash
- Lightning rod

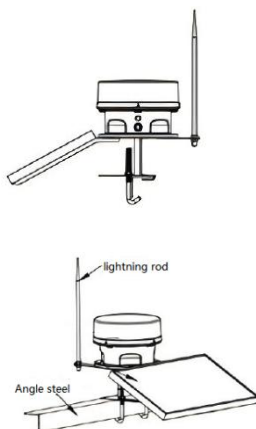


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Dimension(mm)



Installation



(Mounting bracket is charged separately.
and other type and size is customized)

SPECIFICATIONS

AL-MI-B2(L) LED Solar Powered Medium-intensity Aviation Obstruction Light

Light Characteristics

Light Source	CREE high intensity LED
Available Colors	Red(Other color is optional)
Intensity(cd)	≥2000cd
Horizontal Output(degrees)	360
Vertical Divergence(degrees)	4
Flash Characteristics	20-60FPM - Type B (factory setting: 20FPM) Steady mode - Type C
Operation Mode	Dusk-to-dawn Automatically as standard.
LED Life Experience(hours)	>100,000

Electrical Characteristics

Operating Voltage(Vdc)	12
Circuit Protection	Integrated

Solar Characteristics

Solar Module Type	Mono crystalline Silicon
Output(watts)	20W
Charging Regulation	Microprocessor controlled

Battery Characteristics

Battery type	Lithium ion battery
Nominal Voltage (V)	11.1V
Autonomy (hours)	≥180hours(20FPM)

Physical Characteristics

Body Material	UV protected Polycarbonate
Base Material	Powder-coated Die-casting aluminum
Mounting(mm)	190×190×Ø12
Dimension(mm)	229×229×168 (Light)
Dimension(mm)	500×480×303 (Light+battery+solar panel)
Weight(kg)	5(Battery & Solar panel included)
Product Life Expectancy	>10years (Battery 3-5years)

Environmental Factors

Ambient Temperature(°C)	-55~60
Storage temperature(°C)	-55~70
Humidity	10%-95%RH(No condensation)
Wind Speed	240Km/h
Waterproof	IP66

Options Available

Flashing rate
NVG(Night Vision Goggles) compatible LED
Dry contact alarm(NO COM NC)
Bird deterrent spike
Lightning rod



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Photometric

