









#### GS-LS-G LED SOLAR **AIRCRAFT WARNING LIGHT**

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#### **GS-LS-G** LED SOLAR AIRCRAFT WARNING LIGHT

### **Alrouf LED Low Intensity Solar Powered Aircraft Warning** Light



GS-LS/G

#### **Products Description**

#### **GS-LS/G Low Intensity Solar Powered Obstruction Light**

GS-LS/G low intensity solar powered obstruction light adopts insert solar panel, whose photoelectric conversion efficiency is high to 19% integrated design, cooperate with solar dedicated lithium iron phosphate battery as power supply. Control circuit adopts micro-power consumption single chip microcomputer control chip, which can more precise control the battery's charge and discharge statue. Meanwhile, it can reduce controlling circuit 's power consumption. Light source adopts special customized LED chip, which has the specific of high light intensity, low power consumption, long service life and so on. Lampshade adopts PC material, which can corrosion resistance, anti-UV anti-shock. The base adopts marine-grade dedicated plastic material, it can apply to seaways, bridge and chemical plant that have hostile and strong corrosive environment.

#### **Features**

- Continuous working time in rainy day can reach more than 15 days (12 hours a day).
- Photocell can switch ON/OFF the light in rainy days or at night automatically.
- Standardization of optical design, high photoelectric conversion efficiency.
- Adopts high efficient solar chip, photoelectric conversion efficiency is over 19%.
- The integration of the waterproof design, it can work in soaking in sea water, High protection grade IP68.
- Adopts special customized LED chip, transfer efficiency and service life is higher than normal LED.
- Circuit adopts advanced charging and discharging management system, prolong battery's life effectively.

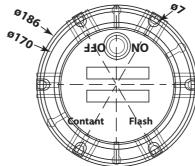
- The lamp extend state switch, it can adjust steady or flashing light working mode base on requirement.
- Provides strong corrosion resistance, lightning resistance, UV resistance, impact resistance.
- The base adopts marine-grade dedicated plastic material, it can apply to seaways, river way, chemical plant and airport that have hostile and strong corrosive environment.
- With anti-bird device.
- No radio frequency (rf), no electromagnetic interference.
- Steady working, low cost.



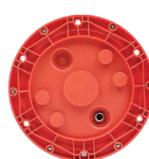
#### **Specification**

Name	Parameter	Name	Parameter
Туре	GS-LS/G	Light Source Life	>100000 hours
Power Provider	Mono-Crystalline Silicon Solar panel	Optional Emitting Light Colors	Red
Battery Capacity	3.2V4AH	Battery Type	Replaceable lithium iron phosphate battery
Battery lifespan	>5years	Solar panel voltage	5.5V
Solar panel Power	2W	Solar panel lifespan	>20years
Consumption	≤2W	Vertical Divergence	>10°
Visual Distance	5km	Horizontal Out-put	360°
FAA Classify	L810	Overall Size(mm)	186mm(D)x190mm(H)
Light Source	LED	Installation Size(mm)	D170mmxM6
Working temperature	-40℃~70℃	Wind-speed Ability	80m/s
Storage temperature	-40℃~70℃	Working mode	Steady light or flash
Sun Switch Illumination Threshold	300LUX±100LUX	Steady Burning Intensity	10cd
Continuous Burning Timein rainy days	>15 days (12 hours/day)	Flashing Intensity	32.5cd
Weight	1kg	IP Protection	IP68

#### **Dimension**







#### **Application**

Block,
Bridge,
Towers,
Communication to the second





Chimney,

#### Heliport.

#### Traffic barrier.

Tower cranes

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### **Alrouf LED Low Intensity Solar Powered Aircraft Warning Dual Light**



#### **Products Description**

#### **GS-LS/T Low-intensity Solar Powered Dual Aviation Obstruction Light**

GS-LS/T Low-intensity Solar Powered Dual Aviation Obstruction Light adopts insert high efficient solar panels integrated design, Control circuit adopts micro-power consumption, which reduce controlling circuit's power consumption.

Light source adopts high efficient LED chip, which has specific of high light intensity, low power consumption, long service life and so on.

The product base is made of stainless steel integrated that has the specific of light weight and corrosion insistence. It's very convenient for installation and transportation.

Lampshade adopts PC material, which can corrosion resistance, anti-UV anti-shock.

#### **Features**

- Continuous working time in rainy day can reach more than 18 days (12 hours a day).
- Photocell can switch ON/OFF the light in rainy days or at night automatically.
- Can customize both lamp flashing synchronously or alternately.
- Standardization of optical design, high photoelectric conversion efficiency.
- Adopts special customized LED chip,transfer efficiency and service life is higher than normal LED.
- Provide ability of lightning protection, light fastness, resist snow and rain.
- Inner adopts replaceable solar lithium iron phosphate battery, whose service life can above 5 years.

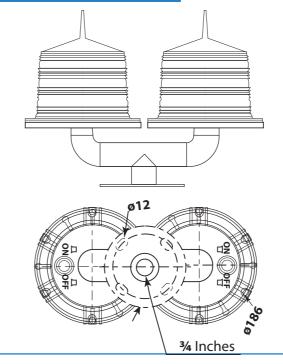
- With bird needle to prevent bird drop.
- No radio frequency (rf), no electromagnetic interference.
- Steady working, low cost.



#### **Specification**

Name	Parameter	Name	Parameter
Туре	GS-LS/T	Light Source Life	>100000 hours
Power Provider	Mono-Crystalline Silicon Solar panel	Optional Emitting Light Colors	Red
Battery Capacity	3.2V6.6AH	Battery Type	Lithium iron phosphate battery
Battery lifespan	>5years	Solar panel voltage	5.5V
Solar panel Power	4W	Solar panel lifespan	>20years
Consumption	≤0.5W	Vertical Divergence	>3°
Visual Distance	5km	Horizontal Out-put	360°
FAA Classify	L810	Overall Size(mm)	356X186X282
Light Source	LED	Installation Size(mm)	3/4",Pitch circle 100mm 4 M12 holes are distributed
Working temperature	-40℃~70℃	Wind-speed Ability	120m/s
Storage temperature	-40℃~70℃	Working mode	Steady Burning/Flashing
Sun Switch Illumination Threshold	300LUX±100LUX	Steady Burning Intensity	10cd
Continuous Burning Timein rainy days	>18 days (12 hours/day)	Flashing Intensity	32.5cd
Weight	3kg	IP Protection	IP67

#### **Dimension**



#### **Application**

Application	
Block,	
Bridge,	
Towers,	
Communication tower,	
Chimney,	
Runway,	
Heliport,	
Traffic barrier,	
Tower cranes	

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## GS-MS/A LED SOLAR AIRCRAFT WARNING LIGHT

# Alrouf LED Medium-intensity Solar Powered Aircraft Warning Light



#### GS-MS/A

#### **Products Description**

#### **GS-MS/A Medium-intensity Type A Solar Aviation Obstruction Light**

GS-MS/A Medium-intensity Type A Solar Aviation Obstruction Light adopts low-light but high efficient solar panels integrated design, cooperate with solar dedicated lithium iron phosphate battery as power supply. The battery adopts advance power management system, which can provide good protection when battery 's voltage and temperature too high or too low, so it can improve the battery's service life efficiently. Control circuit adopts micro-power consumption, which reduce controlling circuit 's power consumption.

Light source adopts high efficient LED chip, which has specific of high light intensity, low power consumption, long service life and so on.

The Product's shell adopts portable structure design. It's very convenient for installation and transportation.

Lampshade adopts PC material, which has strong ability of corrosion, anti-UV, anti-shock.

#### **Features**

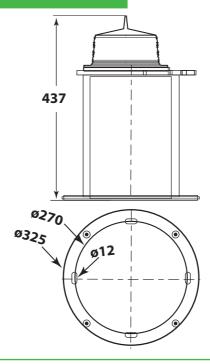
- Continuous working time in rainy day can reach more than 18 days (12 hours a day).
- Photocell can switch ON/OFF the light in rainy days or at night automatically.
- Can customize both lamp flashing synchronously or alternately.
- Standardization of optical design, high photoelectric conversion efficiency.
- Adopts special customized LED chip,transfer efficiency and service life is higher than normal LED.
- Provide ability of lightning protection, light fastness, resist snow and rain.
- Inner adopts replaceable solar lithium iron phosphate battery, whose service life can above 5 years.



#### Specification

Name	Parameter	Name	Parameter
Туре	GS-MS/A	Light Source Life	>100000 hours
Power Provider	Mono-Crystalline Silicon Solar panel	Emitting Colors	White
Battery Capacity	12V24AH	Battery Type	Lead acid battery
Battery lifespan	2years	Solar panel voltage	16.5V
Solar panel Power	8Wx4	Solar panel lifespan	>20years
Power Consumption	≤45W	Vertical Divergence	>10°
Visual Distance	40km	Horizontal Out-put	360°
FAA Classify	L865	Overall Size(mm)	325X325X366
Light Source	LED	Installation Size(mm)	270mm×M8
Working temperature	-40℃~50℃	Wind-speed Ability	80m/s
Storage temperature	-40℃~70℃	Working mode	Flashing (40 tims/min)
Sun Switch Illumination Threshold	300LUX±100LUX	Light Intensity	2000cd~20000cd (±25%)
Continuous Burning Timein rainy days	>20 days (12 hours/day)	IP Protection	IP65
Weight	18kg		

#### **Dimension**



#### **Application**

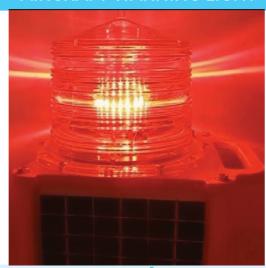
Block,
Bridge,
Towers,
Communication tower,
Chimney,
Runway,
Heliport,
Traffic barrier,
Tower cranes

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## GS-MS/B LED SOLAR AIRCRAFT WARNING LIGHT



GS-MS/B

#### **Products Description**

**Alrouf LED** 

**Solar Powered** 

Light

**Medium-intensity** 

**Aircraft Warning** 

#### **GS-MS/B Portable Medium-intensity Type B Solar Aviation Obstruction Light**

Portable Medium-intensity Type B Solar Aviation Obstruction Light adopts illuminance but high efficient solar panels integrated design, cooperate with solar dedicated plumbic acid battery as power supply.

The battery adopts advance power management system, which can provide good protection when battery's voltage and temperature too high or too low, so it can improve the battery's service life efficiently.

Controlling circuit adopts micro-power consumption, which reduce controlling circuit 's power consumption.

Light source adopts high efficient LED chip, which has specific of high Light intensity, low power consumption, long life and so on.

Adopts portable structure design, it's convenient for transportation, especially fit for temporary channel, airport runway.

Lampshade adopt with PC material, which can resist corrosion, anti-UV, anti-shock and so on.

#### **Features**

- Continuous working time in rainy day can reach more than 15 days (12 hours a day).
- Photocell can switch ON/OFF the light in rainy days or at night automatically.
- Standardization of optical design, high photoelectric conversion efficiency.
- Special LED chips with brightness, high conversion efficient and long life.
- Provide ability of lightning protection, light fastness, resist snow and rain.
- LED technology, working stable, save cost of maintain.

- Internal use renewable solar dedicated lead-acid battery, service life can reach more than 2 years.
- Can customize lithium iron phosphate battery to improve service life and working temperature range.





GS-MS/B LED SOLAR AIRCRAFT WARNING LIGHT

#### **Specification**

Name	Parameter	Name	Parameter
Туре	GS-MS/B	Light Source Life	>100000 hours
Power Provider	Mono-Crystalline Silicon Solar panel	Emitting Colors	Red
Battery Capacity	12V24AH	Battery Type	Lead acid battery
Solar panel Power	8Wx4	Solar panel voltage	6Wx4
Power Consumption	≤45W	Vertical Divergence	>10°
Visual Distance	40km	Horizontal Out-put	360°
Light Intensity	20000cd (±25%)	Overall Size(mm)	260X260X420(H)
Light Source	LED	Installation Size(mm)	D220mm×M8
Working temperature	- <b>50</b> °C <b>~70</b> °C	Wind-speed Ability	80m/s
Storage temperature	-50℃~70℃	Working mode	Flashing (20 tims/min)
Weight	7kg	IP Protection	IP65
Sun Switch Illumination Threshold	300LUX±100LUX	Continuous Burning Timein rainy days	>15 days (12 hours/day)

#### **Dimension**

## 120 Ø220 Ø260 Ø12

#### **Application**

Block,
Bridge,
Towers,
Communication Tower,
Chimney,
Runway,
Heliport,
Traffic Barrier,
Tower Cranes

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### Alrouf LED **Low intensity** Type B Aviation Aircraft Warning **Double Solar**



#### **TX-LB-01 (L) DOUBLE SOLAR**

#### **Products Description**

#### TX-LB-01 (L) Double Solar

Low intensity Type B Aviation Obstruction Light-Double Light, its shell adopt high intensity casting aviation aluminum, Light source adopt high efficient SMT LED chip and combine with reflecting optical structure, which have the specific of high brightness and long lifespan; Management circuit with Strong lightning protection and With the surge protection device, which can adopt to extremely bad working environment. Built-in advanced battery management protection module, which can prolong the battery lifespan effectively

Built-in dual light source design, when main light default, it can switch to standby light to work automatically.

#### **Features**

- Housing adopt high intensity casting aviation
   Built-in independent battery charge and aluminum.
- Built-in dual light source design, when main light default, it can switch to standby light to • work automatically.
- Adopt with independent research and development advanced optical lighting system
- Spotlight angle meets CAAC and ICAO requirements.
- With surge protection device, which can adopt to extremely bad working environment.
- Adopt high conversion efficiency monocrystalline silicon chip, its service life is more than 20 years
- With the impact resistance, anti lightning, resistant to sunlight, anti snow, can resist typhoons, hail and other severe weather.

- discharge management module, easy maintenance.
- Adopt high safety and long lifespan of lithium iron phosphate battery, whose lifespan is more than 3 times that of ordinary lead-acid
- Remote control and telemetry can be customized.
- Integrated high-power solar panel design, high charging efficiency.







#### **Specification**

	CAAC	MH/T 6012-2015 and AC-137-CA-2017	Aviation obstruction light
Performed Standard	ICAO	ICAO Annex 14 Volume I The 8th Edition	Airport design and operation
Standard	FAA	Advisory Circular 150/5345-43J	Specification for Obstruction Lighting Equipment

Model	TX-LB-01 (L)	Vertical Divergence	>10°
Power supply	Solar power supply	Horizontal Out-put	360
Power frequency	DC supply	Overall Size	300*292*320mm (L*W*H)
Average power	≤2.6W	Installation size	Ф145mm*3*M8
Solar panel power	10W	Battery power	12.8V14AH
Working mode	Steady Light	Ambient	10%
Emitted color	Red LED	Temperature	-40°C∼+55°C
Light source	Aviation dedicated	Weight	≈3.2KG
Shell material	Aluminum alloy	Wind load	240km/h
Light source	≥200000h	Luminous mirror	optical PC
Surge Protection Grade	ЗКА	material	optical i c
		Protection grade	IP65
Get wet in the rain	Can be exposed to rain in	Relative humidity	0%~95%
Get wet in the fair	any wind direction	Salt spray	Can be exposed to salt spray
Radiation	Can be exposed to solar radiation	Insulation characteristic	/
Seismic resistance	10~500Hz,2G10min/cycle, XYZ 60 minutes for each axis	EMC standards	Emitted:EN55022(CISPR2 2) class A harmonic wave: EN61000-3-2,-3
	IOI Eacii axis	Altitude	≥2500m
Mean Time Between	≥200000h, MIL-HDBK-217F(25°C)	Effective intensity	night:32.5cd
Failure		Photocell stage	50/100Lux

#### **Application**

Block,, Airport, High-Pole Lamp, Chimney, Bridge, Towers, Communication Tower, Super High Building

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#### TX-LB-01 (L) LOW INTENSITY TYPE 'B' AVIATION OBSTRUCTION SINGLE LIGHT

#### شركة الـــروف dlrouf TX-LB-01 (L) LOW INTENSITY TYPE 'B' AVIATION OBSTRUCTION SINGLE LIGHT

## **Alrouf LED** TX-LB-01 (L) Low intensity Type B Aviation Aircraft Warning **Single Light**



#### TX-LB-01 (L) SINGLE LIGHT

#### **Products Description**

#### TX-LB-01(L) Low intensity Type B Aviation Obstruction Light-Single Light

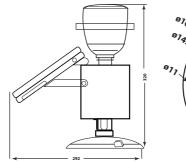
Low intensity Type B Aviation Obstruction Light-Single Light, its shell adopt high intensity casting aviation aluminum, Light source adopt high efficient SMT LED chip and combine with reflecting optical structure, which have the specific of high brightness and long lifespan; Management circuit with Strong lightning protection and With the surge protection device, which can adopt to extremely bad working environment. Built-in advanced battery management protection module, which can prolong the battery lifespan effectively

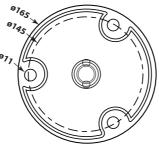
#### **Features**

- Housing adopt high intensity casting aviation
   Built-in independent battery charge and aluminum.
- Built-in dual light source design, when main light default, it can switch to standby light to work automatically.
- Adopt with independent research and development advanced optical lighting
- Spotlight angle meets CAAC and ICAO requirements.
- With surge protection device, which can adopt to extremely bad working environment.
- Adopt high conversion efficiency monocrystalline silicon chip, its service life is more than 20 years
- With the impact resistance, anti lightning, resistant to sunlight, anti snow, can resist typhoons, hail and other severe weather.
- Integrated high-power solar panel design, high charging efficiency.

- discharge management module, easy maintenance.
- Adopt high safety and long lifespan of lithium iron phosphate battery, whose lifespan is more than 3 times that of ordinary lead-acid battery.
- Remote control and telemetry can be customized.

#### **Dimension**





#### **Specification**

	CAAC	MH/T 6012-2015 and AC-137-CA-2017	Aviation obstruction light
Performed Standard	ICAO	ICAO Annex 14 Volume I The 8th Edition	Airport design and operation
Staridard	FAA	Advisory Circular 150/5345-43J	Specification for Obstruction Lighting Equipment

Model	TX-LB-01 (L)	Vertical Divergence	>10°
Power supply	Solar power supply	Horizontal Out-put	360
Power frequency	DC supply	Overall Size	300*292*320mm (L*W*H)
Average power	≤2.6W	Installation size	Ф145mm*3*M8
Solar panel power	10W	Battery power	12.8V14AH
Working mode	Steady Light	Ambient	40°C
Emitted color	Red	Temperature	-40℃~+55℃
Light source	LED	Weight	≈3.2KG
Shell material	Aviation dedicated	Wind load	240km/h
Shell material	Aluminum alloy		ontical PC
Light source lifespan	≥200000h	material	optical PC
Surge Protection Grade	3KA	Protection grade	IP65
Get wet in the rain	Can be exposed to rain in	Relative humidity	0%~95%
Get wet in the fain	any wind direction	Salt spray	Can be exposed to salt spray
Radiation	Can be exposed to solar radiation	Insulation characteristic	/
Seismic resistance	10∼500Hz,2G10min/cycle, XYZ 60 minutes for each axis	EMC standards	Emitted:EN55022(CISPR22) class A harmonic wave: EN61000-3-2,-3
	ioi cacii axis	Altitude	≥5000m
Mean Time Between	≥200000h, MIL-HDBK-217F(25°C)	Effective intensity	night:32.5cd
Failure		Photocell stage	50/100Lux

#### **Application**

Block,, Airport, High-Pole Lamp, Chimney, Bridge, Towers, Communication Tower, Super High Building

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### TX-MA-01 (L) SOLAR POWER **MEDIUM INTENSITY TYPE A**

## **AVIATION OBSTRUCTION LIGHT**

## **Medium intensity Type A Aviation Obstruction Light**



#### TX-MA-01 (L) SOLAR POWER

#### **Products Description**

**Alrouf LED** 

TX-MA-01 (L)

**Solar Power** 

#### TX-MA-01(L) type A Medium-intensity solar power aviation obstruction light

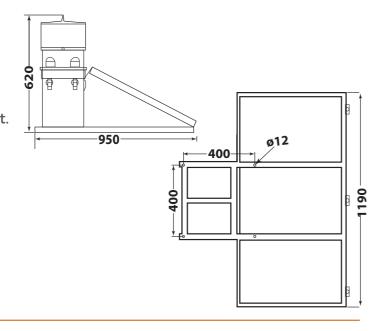
TX-MA-01(L) type A Medium-intensity solar power aviation obstruction light, its shell adopt high intensity casting aviation aluminum, Light source adopt high efficient SMT LED chip and combine three layers overlay reflective optical structure, which have the specific of high brightness and long lifespan; Management circuit with Strong lightning protection and With the surge protection device, which can adopt to extremely bad working environment.

#### **Features**

- Advanced energy-saving technology, overall power consumption ≤ 11W.
- Adopt high power chip LED chip, with specific of high brightness, low energy consumption, long life and so on.
- With three layers overlay reflective optical
- Spotlight angle meets CAAC and ICAO requirements.
- With surge protection device, which can adopt to extremely bad working environment.
- Adopt high conversion efficiency monocrystalline silicon chip, its service life is more than 20 years
- With the impact resistance, anti lightning, resistant to sunlight, anti snow, can resist typhoons, hail and other severe weather.
- Built-in independent battery charge and discharge management module, easy maintenance.

- Housing adopt high intensity casting aviation
   It can be customized functions of GPS Beidou wireless synchronization, LORA-10KM wireless sync, Remote control and telemetering.
  - User can choose integrate type or split type of solar power system according to site requirement.

#### **Dimension**





#### TX-MA-01 (L) SOLAR POWER **MEDIUM INTENSITYTYPE A AVIATION OBSTRUCTION LIGHT**

#### **Specification**

	CAAC	MH/T 6012-2015 and AC-137-CA-2017	Aviation obstruction light
Performed Standard	ICAO	ICAO Annex 14 Volume I The 8th Edition	Airport design and operation
Standard	FAA	Advisory Circular 150/5345-43J	Specification for Obstruction Lighting Equipment

Model	TX-MA-01 (L)	Vertical Divergence	>10°
Power supply	Solar power supply	Horizontal Out-put	360
Power frequency	DC supply	Overall Size	1190mm*950mm*620mm (L*W*H)
Average power	≤11W	Installation size	400mm*400mm*M10
Solar panel power	120W	Battery power	3120WH
Working mode	Flash 20-60times/min	Ambient	40°C - 155°C
Emitted color	White	Temperature	-40°C∼+55°C
Light source	LED	Weight	≈62KG
Shell material	Aviation dedicated Aluminum alloy	Wind load	240km/h
Sheli material		Luminous mirror material	optical PC
Light source lifespan	≥200000h		
Surge Protection Grade	ЗКА	Protection grade	IP65
Get wet in the rain	Can be exposed to rain in	Relative humidity	0%~95%
Get wet in the fam	any wind direction	Salt spray Can be exposed to salt spray	
Radiation	Can be exposed to solar radiation	Leakage current	/
Seismic resistance	10∼500Hz,2G10min/cycle, XYZ 60 minutes for each axis	EMC standards	Emitted:EN55022(CISPR22) class A harmonic wave: EN61000-3-2,-3
	15. 63611 4/15	Altitude	≥5000m
Mean Time Between	≥200000h,	Effective intensity	Night: 2000 cd,daytime: 20000 cd
Failure	MIL-HDBK-217F(25°C)	Photocell stage	50/100Lux

#### **Application**

Block,, Airport, High-Pole Lamp, Chimney, Bridge, Towers, Communication Tower, Super High Building

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## TX-MB-01(L) SOLAR POWER

## MEDIUM-INTENSITY TYPE B



#### TX-MB-01(L) SOLAR POWER **MEDIUM-INTENSITY TYPE B**

## **Alrouf LED** TX-MA-01 (L) **Solar Power Medium intensity Type A Aviation Obstruction Light**



#### TX-MA-01 (L) SOLAR POWER

#### **Products Description**

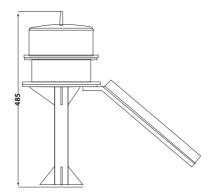
#### TX-MB-01(L) Type B Medium-intensity Solar Power

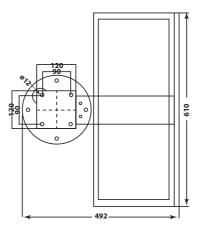
TX-MB-01(L) type B Medium-intensity Solar Power Aviation Obstruction Dual Light, its shell adopt high intensity casting aviation aluminum, Light source adopt high efficient SMT LED chip and combine with reflecting optical structure, which have the specific of high brightness and long lifespan; Management circuit with Strong lightning protection and With the surge protection device, which can adopt to extremely bad working environment. Built-in advanced battery management protection module, which can prolong the battery lifespan Effectively Built-in dual light source design, when the main light source failure, it will switch to the standby light source automatically

#### **Features**

- Housing adopt high intensity casting aviation aluminum.
- Adopt with independent research and development advanced optical lighting system. Spotlight angle meets CAAC and ICAO requirements.
- With surge protection device, which can adopt to extremely bad working environment.
- Adopt high conversion efficiency monocry stalline silicon chip, its service life is more than 20 years
- With the impact resistance, anti lightning, resistant to sunlight, anti snow, can resist typhoons, hail and other severe weather.
- Built-in independent battery charge and discharge management module, easy maintenance.
- It can be customized functions of GPS Beidou wireless synchronization. LORA-10KM wireless sync, Remote control and telemetering.
- Integrated high-power solar panel design, high charging efficiency.

#### Dimension





#### **Specification**

	CAAC	MH/T 6012-2015 and AC-137-CA-2017	Aviation obstruction light
Performed Standard	ICAO	ICAO Annex 14 Volume I The 8th Edition	Airport design and operation
Standard	FAA	Advisory Circular 150/5345-43J	Specification for Obstruction Lighting Equipment

Model	TX-MB-01 (L)	Vertical Divergence	3°
Power supply	Solar power supply	Horizontal Out-put	360
Power frequency	DC supply	Overall Size	610×492×485mm
Average power	≤2.5W	Installation size	Ф90mm*4*M8
Solar panel power	35W	Battery power	192WH
Working mode	Flash 20 times/min	Ambient	40°C 55°C
Emitted color	Red	Temperature	-40°C∼+55°C
Light source	LED	Weight	≈7.4kg
Shell material	Aviation dedicated	Wind load	240km/h
Sheli material	Aluminum alloy	Luminous mirror material	optical PC
Light source lifespan	≥200000h		
Surge Protection Grade	-	Protection grade	IP65
Get wet in the rain	Can be exposed to rain in	Relative humidity	0%~95%
det wet in the fam	any wind direction	Salt spray	
Radiation	Can be exposed to solar radiation	Leakage current	/
Seismic resistance	10∼500Hz,2G10min/cycle, XYZ 60 minutes for each axis	EMC standards	Emitted:EN55022(CISPR22) class A harmonic wave: EN61000-3-2,-3
	15. 63611 4/15	Altitude	≥5500m
Mean Time Between	en ≥200000h,	Effective intensity	Night:2000cd (±25%)
Failure	MIL-HDBK-217F(25°C)	Photocell stage	50/100Lux

#### **Application**

Block,, Airport, High-Pole Lamp, Chimney, Bridge, Towers, Communication Tower, Super High Building

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## **TX-MB-01(L)** SOLAR TWIN LIGHT MEDIUM INTENSITY TYPE B



## TX-MB-01(L) SOLAR TWIN LIGHT MEDIUM INTENSITY TYPE B

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# Alrouf LED TX-MB-01(L) Solar Twin Light Medium intensity Type B Aviation Obstruction Light



#### TX-MB-01(L) SOLAR TWIN LIGHT

#### **Products Description**

#### TX-MB-01(L) Solar Twin Light Medium intensity Type B

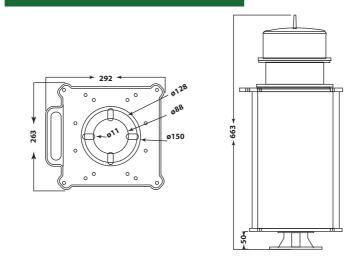
TX-MB-01(L) type B Medium-intensity Solar Power Aviation Obstruction Light, its shell adopt high intensity casting aviation aluminum, Adaptive range  $\phi 88$  ~ 128mm of installation size. Light source adopt high efficient SMT LED chip and combine with reflecting optical structure, which have the specific of high brightness and long lifespan; Management circuit with Strong lightning protection and With the surge protection device, which can adopt to extremely bad working environment. Built-in advanced battery management protection module, which can prolong the battery lifespan effectively Built-in dual light source design,when main light default, it can switch to standby light to work automatically.

#### **Features**

- Housing adopt high intensity casting aviation aluminum.
- Adopt high power SMT LED chip, which have the specific of high brightness, low power consumption and long long lifespan.
- Adopt with independent research and development advanced optical lighting system
- Spotlight angle meets CAAC and ICAO requirements.
- With surge protection device, which can adopt to extremely bad working environment.
- Adopt high conversion efficiency monocrystalline silicon chip, its service life is more than 20 years
- With the impact resistance, anti lightning, resistant to sunlight, anti snow, can resist typhoons, hail and other severe weather.
- 4pcs high-power solar panel design, high charging efficiency.

- Built-in independent battery charge and discharge management module, easy maintenance.
- It can be customized functions of GPS Beidou wireless synchronization, LORA-10KM wireless sync, Remote control and telemetering.

#### **Dimension**



#### Specification

	CAAC	MH/T 6012-2015 and AC-137-CA-2017	Aviation obstruction light
Performed Standard	ICAO	ICAO Annex 14 Volume I The 8th Edition	Airport design and operation
Standard	FAA	Advisory Circular 150/5345-43J	Specification for Obstruction Lighting Equipment

Model	TX-MB-01 (L)	Vertical Divergence	3°
Power supply	Solar power supply	Horizontal Out-put	360
Power frequency	DC supply	Insulation characteristic	/
Average power	≤2.5W	Installation size	Ф90mm*4*M8
Solar panel power	4x14W	Battery power	192WH
Working mode	Flash 20-60times/min	Ambient	40°C 55°C
Emitted color	Red	Temperature	-40°C∼+55°C
Light source	LED	Weight	≈25kg include solar system
Shell material	Aviation dedicated Aluminum alloy	Wind load	240km/h
Jileli Materiai		Luminous mirror material	optical PC
Light source lifespan	≥200000h		
Anti urge Protection rating	ЗКА	Protection grade	IP65
Get wet in the rain	Can be exposed to rain in	Relative humidity	0%~95%
Get wet in the fain	any wind direction	Salt spray	Can be exposed to salt spray
Radiation	Can be exposed to solar radiation	Overall Size	Not include solar system: 215*215*204mm (L*W*H) Include solar system: 292*263*663(L*W*H)
Seismic resistance	10~500Hz,2G10min/cycle, XYZ 60 minutes for each axis	EMC standards	Emitted:EN55022(CISPR22) class A harmonic wave: EN61000-3-2,-3
		Altitude	≥2500m
Mean Time Between	≥200000h,	Effective intensity	night:2000cd
Failure	MIL-HDBK-217F(25℃)	Photocell stage	50/100Lux

#### **Application**

Block,, Airport, High-Pole Lamp, Chimney, Bridge, Towers, Communication Tower, Super High Building

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## Alrouf LED TX-MB-01(L) Solar Power Medium intensity Type B

**Aviation Obstruction Light** 



#### TX-MB-01(L) SOLAR POWER

#### **Products Description**

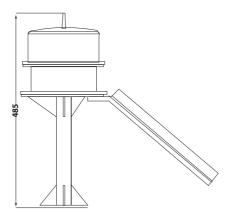
#### TX-MB-01(L) Solar Power Medium intensity Type B

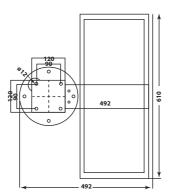
TX-MB-01(L) type B Medium-intensity solar power aviation obstruction light, its shell adopt high intensity casting aviation aluminum, Light source adopt high efficient SMT LED chip and combine with reflecting optical structure, which have the specific of high brightness and long lifespan; Management circuit with Strong lightning protection and With the surge protection device, which can adopt to extremely bad working environment. Built-in advanced battery management protection module, which can prolong the battery lifespan effectively

#### **Features**

- Housing adopt high intensity casting aviation aluminum.
- Adopt with independent research and development advanced optical lighting system Spotlight angle meets CAAC and ICAO requirements.
- With surge protection device, which can adopt to extremely bad working environment.
- Adopt high conversion efficiency monocrystalline silicon chip, its service life is more than 20 years
- With the impact resistance, anti lightning, resistant to sunlight, anti snow, can resist typhoons, hail and other severe weather.
- Built-in independent battery charge and discharge management module, easy maintenance.
- It can be customized functions of GPS Beidou wireless synchronization LORA-10KM wireless sync, Remote control and telemetering.
- Integrated high-power solar panel design, high charging efficiency.

#### **Dimension**





#### Specification

	CAAC	MH/T 6012-2015 and AC-137-CA-2017	Aviation obstruction light
Performed Standard	ICAO	ICAO Annex 14 Volume I The 8th Edition	Airport design and operation
Staridard	FAA	Advisory Circular 150/5345-43J	Specification for Obstruction Lighting Equipment

Model	TX-MB-01 (L)	Vertical Divergence	3°	
Power supply	Solar power supply	Horizontal Out-put	360	
Power frequency	DC supply	Overall Size	610*492*485mm (L*W*H)	
Average power	≤2.5W	Installation size	Ф90mm*4*M8	
Solar panel power	35W	Battery power	192WH	
Working mode	Flash 20-60times/min	Ambient	40°C 55°C	
Emitted color	Red	Temperature	-40°C∼+55°C	
Light source	LED	Weight	≈7.2kg	
Shell material	Aviation dedicated	Wind load	240km/h	
Silenmaterial	Aluminum alloy	Luminous mirror material	optical PC	
Light source lifespan	≥200000h			
Insulation Characteristic	/	Protection grade	IP65	
Get wet in the rain	Can be exposed to rain in	Relative humidity	0%~95%	
	any wind direction	Salt spray	Can be exposed to salt spray	
Radiation	Can be exposed to solar radiation	Battery type	Lithium iron phosphate battery	
Seismic resistance	10∼500Hz,2G10min/cycle, XYZ 60 minutes for each axis	EMC standards	Emitted:EN55022(CISPR22) class A harmonic wave: EN61000-3-2,-3	
	TOT CUCITUALS	Altitude	≥5500m	
Mean Time Between	≥200000h,	Effective intensity	night:2000cd,default≥1600cd	
Failure	MIL-HDBK-217F(25℃)	Photocell stage	50/100Lux	

#### **Application**

Block,, Airport, High-Pole Lamp, Chimney, Bridge, Towers, Communication Tower, Super High Building

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## TX-MB-01(L) SOLAR POWER LIGHT MEDIUM INTENSITY TYPE B

## شركة الحدودة الإنارة المحدودة ا

## **TX-MB-01(L)** SOLAR POWER LIGHT MEDIUM INTENSITY TYPE B

# Alrouf LED TX-MB-01(L) Solar Power Medium intensity Aviation Obstruction Light



#### TX-MB-01(L) SOLAR POWER

#### **Products Description**

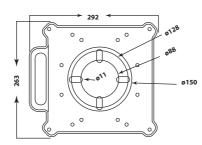
#### TX-MB-01(L) Solar Power Medium intensity Type B

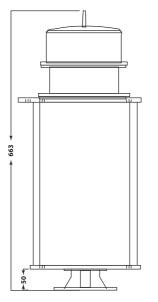
TX-MB-01( L) type B Medium-intensity solar power aviation obstruction light, its shell adopt high intensity casting aviation aluminum, Adaptive range  $\phi 88 \sim 128$ mm of installation size. Light source adopt high efficient SMT LED chip and combine with reflecting optical structure, which have the specific of high brightness and long lifespan; Management circuit with Strong lightning protection and With the surge protection device, which can adopt to extremely bad working environment. Built-in advanced battery management protection module, which can prolong the battery lifespan effectively

#### **Features**

- Housing adopt high intensity casting aviation aluminum.
- Adopt high power SMT LED chip, which have the specific of high brightness, low power consumption and long long lifespan.
- Adopt with independent research and development advanced optical lighting system
- Spotlight angle meets CAAC and ICAO requirements.
- With surge protection device, which can adopt to extremely bad working environment.
- Adopt high conversion efficiency monocrystalline silicon chip, its service life is more than 20 years
- With the impact resistance, anti lightning, resistant to sunlight, anti snow, can resist typhoons, hail and other severe weather.
- Built-in independent battery charge and discharge management module, easy maintenance.
- It can be customized functions of GPS Beidou wireless synchronization, LORA-10KM wireless sync, Remote control and telemetering.
- 4pcs high-power solar panel design, high charging efficiency.

#### **Dimension**





#### Specification

	CAAC	MH/T 6012-2015 and AC-137-CA-2017	Aviation obstruction light
Performed Standard	ICAO	ICAO Annex 14 Volume I The 8th Edition	Airport design and operation
Staridard	FAA	Advisory Circular 150/5345-43J	Specification for Obstruction Lighting Equipment

Model	TX-MB-01 (L)	Vertical Divergence	3°
Power supply	Solar power supply	Horizontal Out-put	360
Power frequency	DC supply	Insulation characteristic	/
Average power	≤2.5W	Installation size	Ф88~128mm*4*M8
Solar panel power	4x14W	Battery power	/
Working mode	Flash 20-60times/min	Ambient	40°C
Emitted color	Red	Temperature	-40°C∼+55°C
Light source	LED	Weight	≈20kg
Shell material	Aviation dedicated Aluminum alloy	Wind load	240km/h
Shell material		Luminous mirror material	optical PC
Light source lifespan	≥200000h		
Anti urge Protection rating	ЗКА	Protection grade	IP65
Get wet in the rain	Can be exposed to rain in	Relative humidity	0%~95%
Get wet in the fain	any wind direction		Can be exposed to salt spray
Radiation	Can be exposed to solar radiation	Overall Size	Not include solar system: 215*215*204mm (L*W*H) Include solar system: 292*263*663(L*W*H)
Seismic resistance	10∼500Hz,2G10min/cycle, XYZ 60 minutes for each axis	EMC standards	Emitted:EN55022(CISPR22) class A harmonic wave: EN61000-3-2,-3
		Altitude	≥2500m
Mean Time Between	≥200000h,	Effective intensity	night:2000cd
Failure	MIL-HDBK-217F(25℃)	Photocell stage	50/100Lux

#### **Application**

Block,, Airport, High-Pole Lamp, Chimney, Bridge, Towers, Communication Tower, Super High Building

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