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SMART SOLAR 4G LED STREET LIGHT

50W

Truelite's smart solar 4G LED street light which integrates the green-energy parts solar panel, LED lamp and the battery into a single product, with human intelligence Panasonic infrared induction sensor system to gain the solution of low-energy, long-time, high-luminance and free maintenance. And the same time, it's convenient in the shipment and installation. Solar panel, battery and LED lamp are all in one, which is waterproof. The shell is made from aluminum alloy, co-operating with good waterproof and airless technology. Smart Street light is dustproof, waterproof, anti-static, shocking resistance, so it can be suitable for outdoors application. The reflective cup technology used in this product helps to raise the lumen of led by more than 30%.

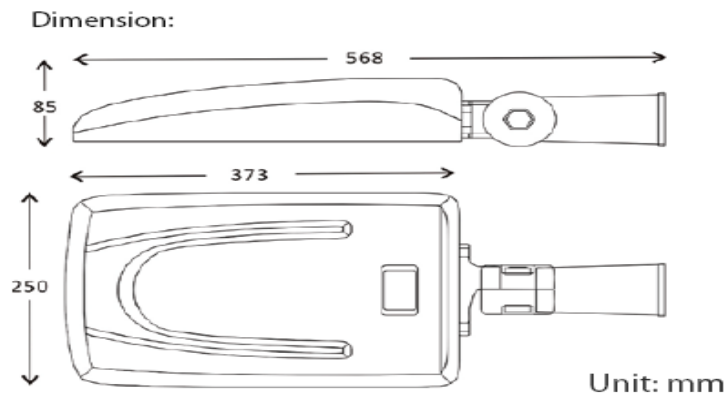
Features

- The creative reflector design can efficiently raise the lumen over 30%.
- Uses new generation, high quality LiFePO4 batteries and unique TWIN battery group arrangement to realize the goal of 8-10 year's maintenance.
- The unique design of thief proof, common tool cannot remove the light from the pole, zero stealing after installation.
- Light up automatically at night and automatically off when sunlight come.
- Adopting the human body infrared induction control technology, light up when people go by while dimming when people go away.
- CE, RoHS certification.

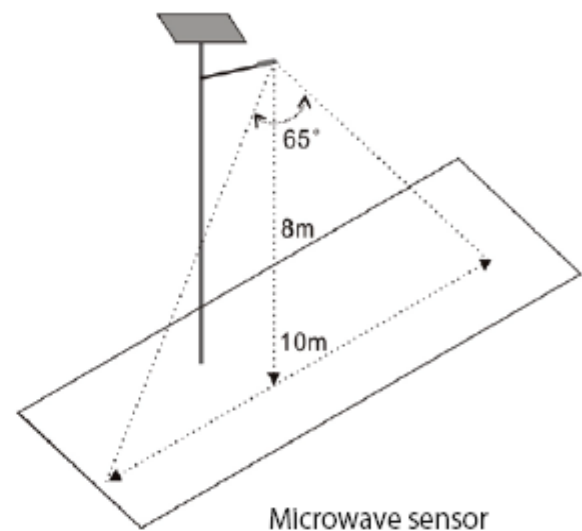
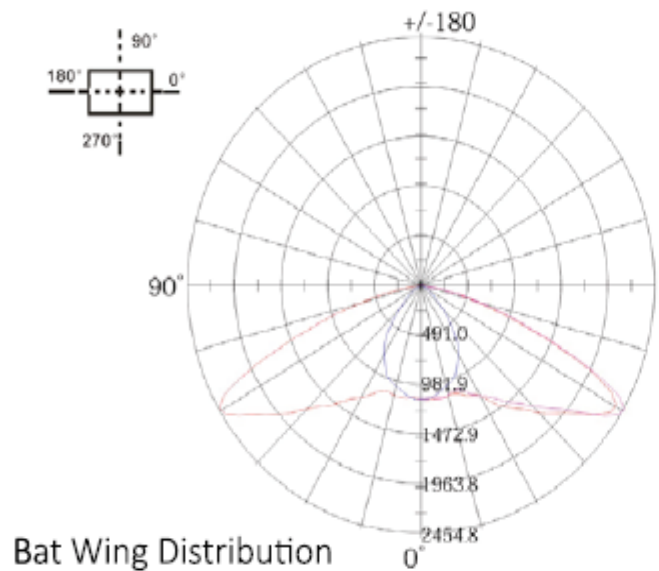
Product Specification

Electrical Data	
Rated power	50W
Input Power	Solar Energy
Power supply	DC-DC
Solar Panel	110W MPPT
Battery	Lithium-Ion LiFePO4 680WH 1000 Cycles
Charging time	6-10 hours
Sensor	12 meter remote Panasonic PIR sensor
Dimming	Yes
Light Data	
Color Temperature	5000-6000K
Color Rendering Index	>82
Beam Angle (Round, Rectangle)	140°x70°
Efficiency of led	130 lm/W
Light distribution curve	Round/Rectangle
Luminous flux(Full power mode)	>6600lm
Luminous flux(power saving mode)	3300lmx
Light Threshold	6Volts
Working Hour(Full power , power saving mode)	>10 Hour , >30 Hour
Service Life	>50000 Hours
Environmental Data	
Working Ambient Temperature (charging /discharging mode)	(-0° to +60°)/ (-20° to +60°)
Storage temperature	-20° To +80°
IP Grade	IP 67
Relative Humidity(RH)	10%-95%
Certificate	CE, RoHS
Mechanical Data	
Product finish	Gray
Light Fixture Material	Aluminum body+ Reflector
Dimension	568x373x250mm
Suggested mounting Height	3 to 5 meter
Luminaire Fixing	Pole mounted
*All parameters are measured @ ambient temperature Tc 25 degree	

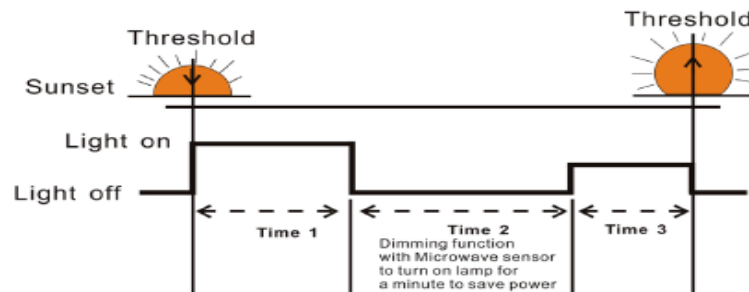
Fixture Dimension



Light Distribution & Microwave Sensor



Working Mode & Time Settings



Example A of Program Setting (Default mode)

1. Time 1: 12 hours 100% bright light. (No sensor function)
2. Time 2: 6 hours 50% bright light, in this time, microwave sensor will be active to run on 100% bright light for 60s"
3. Time 3: 0 hours 0% bright light till dawn. (No sensor function)

Example B of Program Setting (Energy Saving mode)

1. Time 1: 0 hours 100% bright light. (No sensor function)
2. Time 2: 12 hours-50% bright light in this time, microwave sensor will be active to run on 100% bright light for 60s"
3. Time 3: 0 hours 25% bright light till dawn. (No sensor function)

Example C of Program Setting (Constant B right mode)

1. Time 1: 8 hours 100% bright light. (No sensor function)
2. Time 2: 0 hours 50% bright light, in this time, microwave sensor will be active to run on 100% bright light for 60s"
3. Time 3: 4hours-25% bright light till dawn. (No sensor function)

Tips:

- 1: Length of each time block is adjustable from 0~15 hours freely.
- 2: Brightness of each time block is adjustable from 0% to 100% freely.
- 3: The time delay when a sensor is activated is adjustable from 10 seconds to 150 seconds.

Application Area

Solar integrated LED street light is an ideal solution for energy efficient lighting retrofit in Solar led Street Light, Pathway Lighting, Ramp, Lighting, Sidewalk Lighting, Private Road Lighting, Square Lighting, Jogging and Bike Path Lighting, Farm & Ranch Lighting, Park Lighting, Gate Lighting, Yard Lighting, Campus Lighting, Boat Dock Lighting, Remote Area Lighting, Parking Lot Lighting.

Ordering Code

TL-AAI0050

