

## 1. Brief Introduction

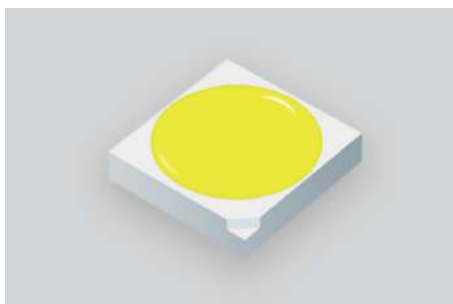
The integrated solar street lamp integrates solar panel, LED light source, lithium battery, charge and discharge controller, infrared sensor and die-cast aluminum lamp shell as a whole, combining photoelectric conversion, constant current control, MPPT controller, infrared human sensing, mobile phone Bluetooth APP intelligent control and other practical control technologies. The overall structure is simple and elegant, easy to install and maintain, wide range of application.



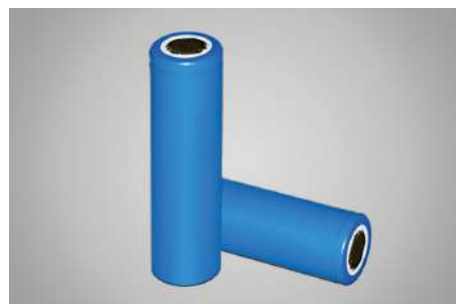
## 2. Components



**Solar panel:** High efficiency monocrystalline solar cell, photoelectric conversion efficiency up to 22%.



**LED source:** High bright A-class LED, luminous efficiency up to 180 LM/W.



**Battery:** Power lithium ion battery, cycle times more than 1500.



**Lens:** Integrated optical lens, batwing-lighting curve, high transmittance and durability.



**Controller:** Self-developed MPPT controller, higher charging efficiency and full protections.

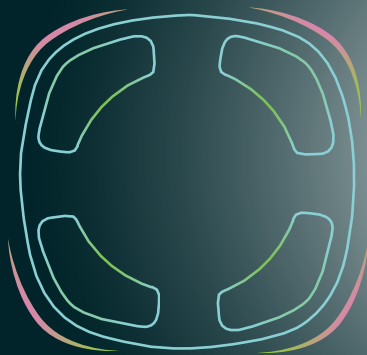


**Housing:** Die-cast Aluminum material, durable and anti-rust.

### 3. Product features

#### ① Appearance

Streamlined circular arc design, elegant and simple;  
IP66 waterproof, rust - proof, corrosion - proof.



#### ② Working mode

Through infrared motion sensing, the brightness of the street lamp can be automatically adjusted, and the farthest sensing distance is 12 meters. When a person or object moves within the sensing range, the brightness of the lamp will be automatically enhanced, and 20~30 seconds after the person or object leaves (the time can be customized), the brightness of the lamp will automatically dim and back to energy-saving mode.

No sensing

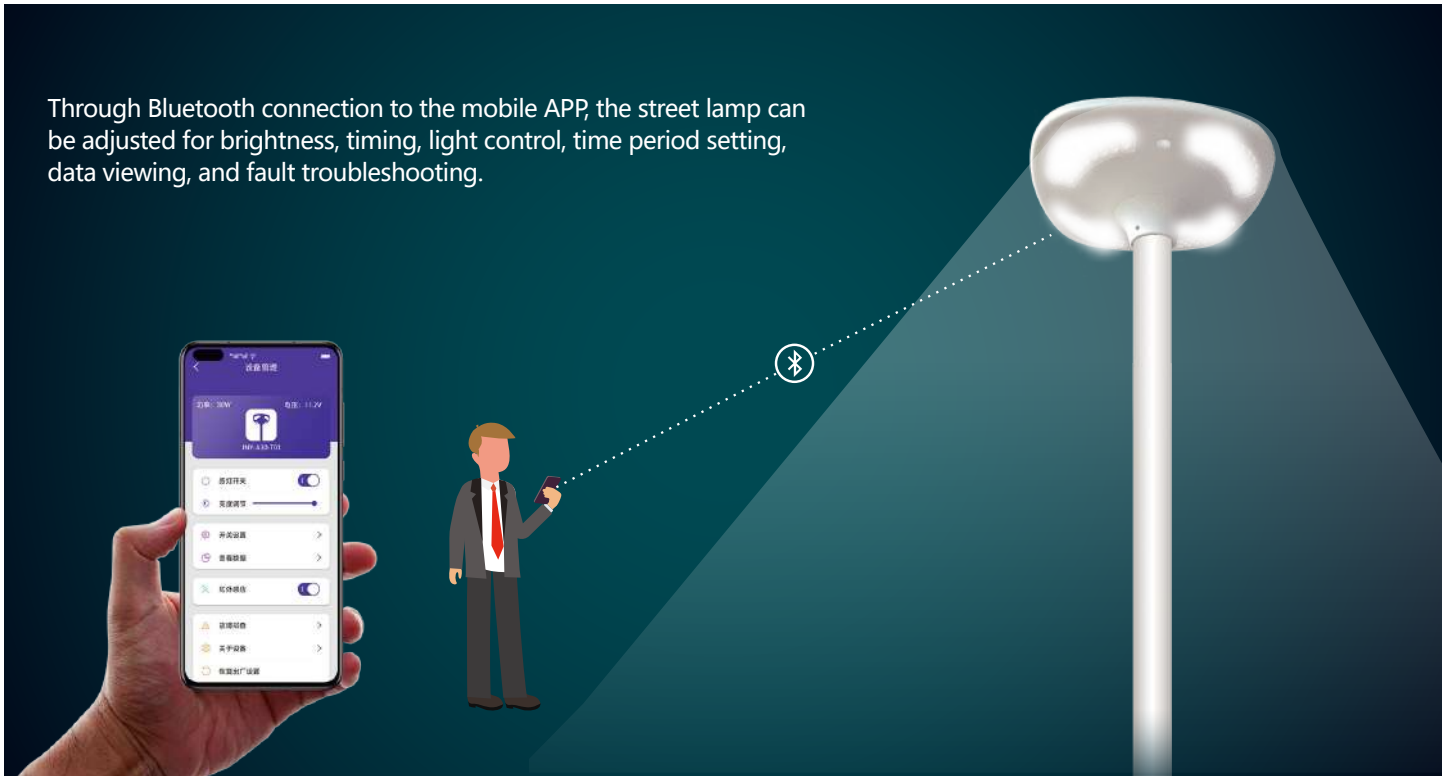


Sensing



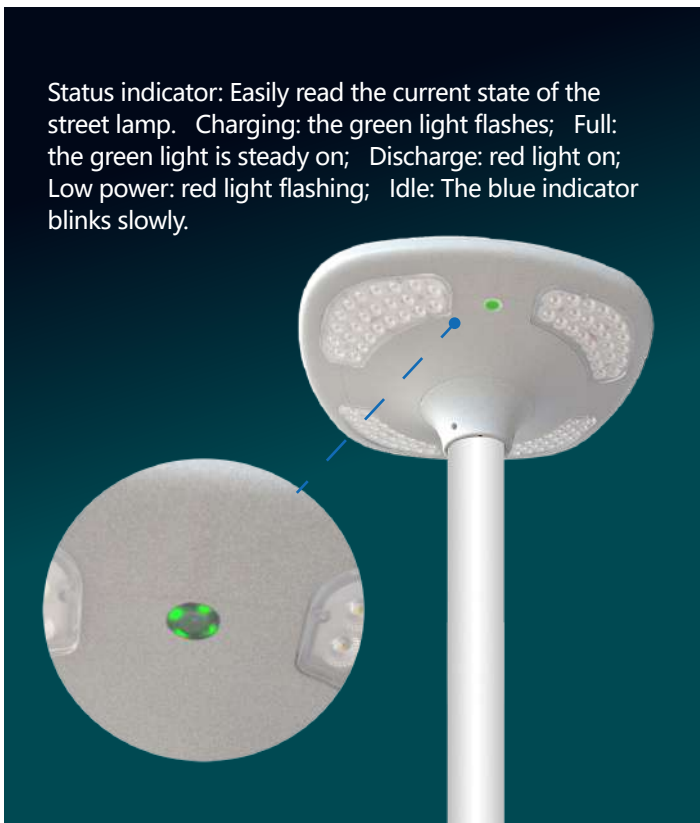
## ③ APP control

Through Bluetooth connection to the mobile APP, the street lamp can be adjusted for brightness, timing, light control, time period setting, data viewing, and fault troubleshooting.



## ④ Status indicator light

Status indicator: Easily read the current state of the street lamp. Charging: the green light flashes; Full: the green light is steady on; Discharge: red light on; Low power: red light flashing; Idle: The blue indicator blinks slowly.



## ⑤ BMS

Intelligent battery management system, easy to grasp the battery status and judge the fault, collect the date conveniently. When the temperature gets too high, automatic protection will be on for battery safety. Automatically adjust the LED output when the battery power is low, meet the demand of full-night lighting, save the configuration and budget, and extend the LED lifetime.





## 4. Product display



## 5. Application area

Products applicable to villa community, tourist attractions, park square, open parking lots and other areas.



## 6. Technical Paramete

### Electrical Characteristics

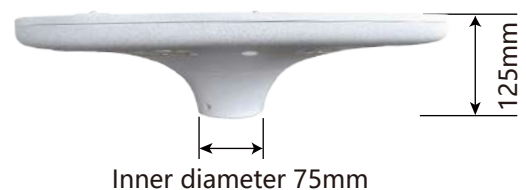
|                     |                |
|---------------------|----------------|
| Rated Power         | 30W            |
| Solar Panel         | 20W MONO       |
| Lithium Battery     | 10.4AH / 7.4V  |
| Charging Time       | 6- 8H          |
| Discharging Time    | > 36H          |
| Working Temperature | - 25°C ~ +65°C |
| Switch Threshold    | 15LUX          |
| Charge Controller   | ≤12M           |

### LED Parameters

|                     |                 |
|---------------------|-----------------|
| LED                 | 3030 / 96 Units |
| Lumen Flux          | 3900- 4500 LM   |
| Luminous Efficiency | 130- 150LM/W    |
| Light Distribution  | Batwing Type    |
| Color Temperature   | 2800- 6500K     |

### Mechanical Specification

|                     |               |
|---------------------|---------------|
| Light Body Size     | 485x485x125MM |
| Net weight          | 4.8 KG        |
| Installation Height | 3- 5M         |
| Pole Distance       | 9 - 15 M      |
| Light pole diameter | 50-70MM       |



### Packing Dimension

|              |                   |
|--------------|-------------------|
| Packing Type | 1 Set / CTN       |
| Packing Size | 520 x 520x 160 MM |
| Gross Weight | 6.1 KG            |

### Functions

Light Control / Time Control / PIR sensor  
APP