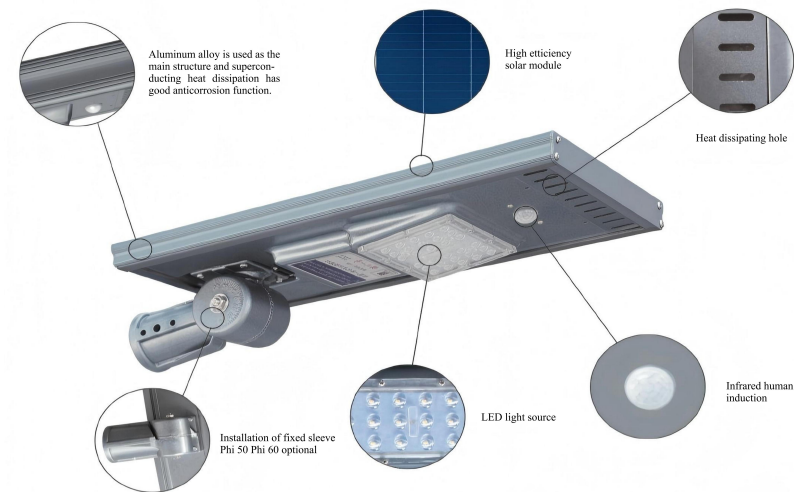


Integrated Solar Led Street Light

主图 1-4

- ✓ High-quality LED beads feature high luminous efficiency and a service life of 50,000-100,000 hours.
- ✓ A variety of lamp post materials for solar street lamps are provided to meet customized needs.
- ✓ The Integrated Solar LED Street Light is equipped with infrared human body induction to achieve intelligent automatic control.
- ✓ Suitable for various heights (4M-12M).

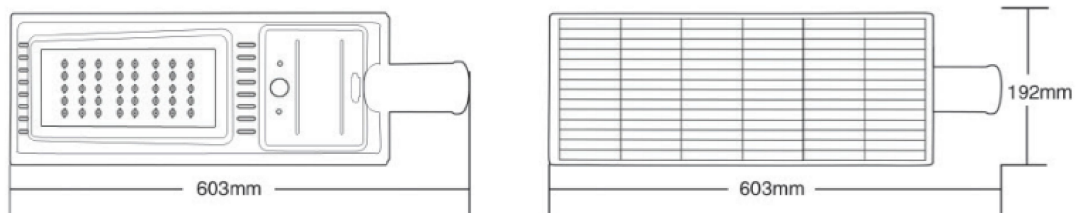
Product Introduction



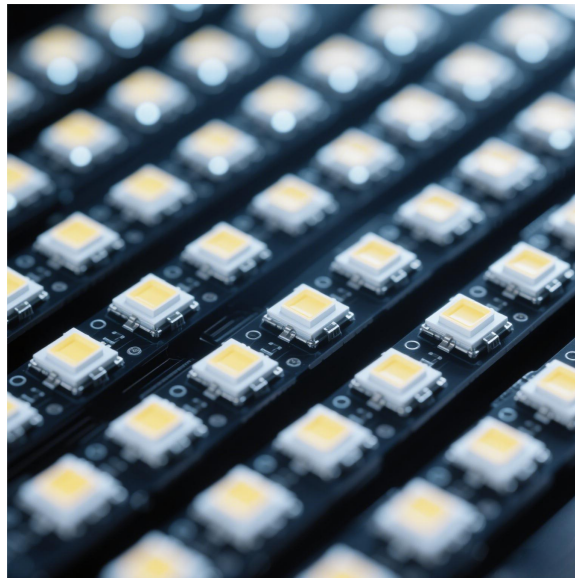
- The luminous efficiency of LED beads can reach 80-150 lm/W (traditional sodium lamps only 20-40 lm/W), providing higher brightness at the same power. Meanwhile, they have an ultra-long service life, reducing frequent replacement costs, which is especially suitable for remote areas.
- The lamp post material of Integrated Solar Led Street Light is one of the key factors for their performance and service life. We provide aluminum alloy, galvanized steel, stainless steel, composite materials, etc., to meet the needs of different customers.
- Infrared human body induction achieves intelligent automatic control by accurately sensing human activities, improving safety and energy efficiency.
- The Integrated Solar Led Street Light can intelligently adapt to different heights.

Technical parameters

Size	603mm×192mm×88mm
Effectiveness	98%
Total harmonic distortion	<15%
Working temperature	Normal temperature type:-20~+50℃ Low temperature type:-45~+50℃
Protection level	IP65
Wind resistance index	Grade 10 of wind resistance index
Installation height	4-12m



High-quality LED beads



Ultra-long service life

High-quality LED beads have a service life of 50,000-100,000 hours (approximately 5-10 years), far exceeding traditional halogen lamps (1,000-2,000 hours) and fluorescent lamps (8,000-15,000 hours). This reduces frequent replacement costs, making them especially suitable for remote areas.

Maintenance-free design

Free from the risks of filament fusing or glass breaking, they are shock-resistant and can withstand outdoor harsh environments (such as typhoons and rainstorms). The maintenance frequency is reduced by over 70% compared to traditional lamps.

Environmentally friendly and pollution-free

Free of toxic substances such as mercury and lead, they are recyclable after disposal and comply with the EU RoHS environmental standards. The Integrated Solar Led Street Light avoids pollution to soil and water sources caused by traditional lamps (such as mercury-containing fluorescent lamps).

Dimension	The Integrated Solar Led Street Light	Traditional Sodium Lamps/Fluorescent Lamps
Energy Efficiency	80-150 lm/W	20-60 lm/W
Lifespan	50,000-100,000 hours	1,000-15,000 hours
Startup Speed	Instant light-up	Requires 3-5 minutes preheating
Temperature Adaptability	-40℃ ~ +60℃	-10℃ ~ +40℃ (prone to failure at low temperatures)
Maintenance Cost	Low (no replacement needed for 5-8 years)	High (requires 1-2 replacements per year)

Table 1 Compare the core advantages of traditional lamps

Infrared Human Body Sensing

1. High-sensitivity detection

Using dual-element infrared sensors, the Integrated Solar Led Street Light can identify human movement within a range of 0.1-5 meters, effectively distinguishing humans from small animals or environmental interference to avoid false triggers.

2.Adaptation to lightless environments

Automatically activated at night or in low-light scenarios, combined with photosensitive sensors to achieve "light on when people come, light off when people leave" without manual intervention.



3. Built-in anti-false trigger algorithm

The filters in Integrated Solar Led Street Light environmental interferences such as strong winds and vibrations to ensure stability.

4. Wide-angle coverage

120 ° fan-shaped detection range, supporting multi-device networking to adapt to large-space scenarios such as corridors and courtyards.

Dimension	Integrated Solar LED Street Light (with Infrared Sensing)	Traditional Municipal Street Light
Energy Consumption	0.5-1 kWh daily power consumption, energy saving rate >80%	5-8 kWh daily power consumption, high energy consumption
Installation Cost	No power grid laying required, 30%-50% lower comprehensive cost	Requires trenching and wiring, high initial investment
Safety	Dynamic light compensation reduces blind spots, sensing distance 10-15 meters	Fixed brightness, high risk of night blind spots
Maintenance Frequency	1-2 times per year (battery replacement)	Monthly inspection, high failure rate

Various lamp post materials

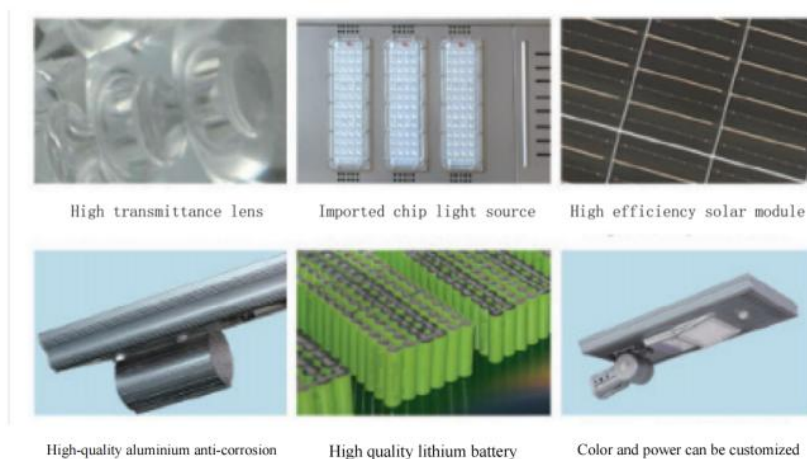
The material of the lamp post for Integrated Solar Led Street Light is one of the key factors affecting their performance and service life. We offer aluminum alloy, galvanized steel, stainless steel, composite materials, etc., to meet the needs of different customers.

- **Aluminum alloy** – Lightweight, beautiful, corrosion-resistant, and an optimal choice for urban landscapes.
- **Galvanized steel** – Sturdy, durable, cost-effective, and capable of withstanding all weather conditions.
- **Stainless steel** – Extremely anti-corrosive, with century-old quality, making it the first choice for chemical industries and coastal areas.
- **Composite materials** – Insulating and lightweight, easily adapting to special terrains and shapes.



Product advantages

- ✓ The design is simple and elegant, with a strong sense of science and technology;
- ✓ High brightness, long service life;
- ✓ Energy-saving lighting, automatic brightness adjustment, self-contained photosensitive system, the brightness increases when it is close, and decreases when it is far away;
- ✓ It can achieve 365 days without turning off the lights, light weight, and easy to install.



About us

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