

主图 1-4

Integrated Street Light

- IP65 protection level, dual protection against dust and water.
- self-cleaning design.
- Adopts advanced monocrystalline silicon solar panels .
- The lifespan is greater than 50,000 hours.

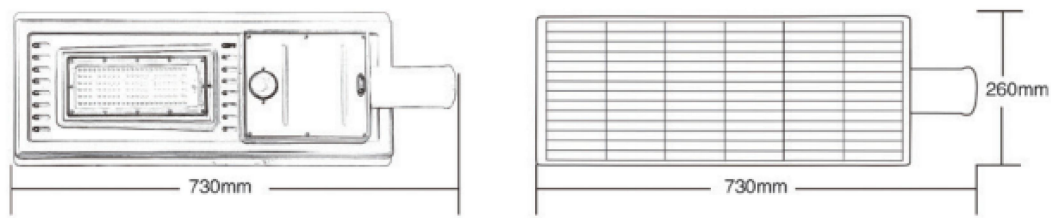
Product Introduction

- ✓ For Integrated Street Light, the IP65 protection level represents the optimal solution of "pragmatism" — it meets the needs of the vast majority of outdoor environments at a reasonable cost. Meanwhile, through dual protection against dust and water, it extends equipment lifespan and reduces maintenance costs.
- ✓ The Integrated Street Light enables automated physical cleaning. The high-frequency sweeping of the brush prevents dust from accumulating into stubborn stains, thus maintaining stable power supply.
- ✓ The battery panel of the Integrated Street Light adopts monocrystalline silicon technology, with a photoelectric conversion efficiency of over 22%. It can still efficiently output power in low-light environments, ensuring consistent battery life even on rainy days.
- ✓ With ultra-long battery life and all-weather intelligent protection, it can achieve continuous operation for up to 365 days without shutdown.



Technical parameters

Size	730mm×260mm×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	6-7m



IP65 protection level

The Integrated Street Light certified to **IEC 60529** international standards, with **IP65 protection verified** through actual testing.



Completely dust-proof (Level 6):

The internal structure features a fully enclosed design, which can block the intrusion of fine dust, pollen, insects, etc., preventing circuit short-circuiting or efficiency degradation caused by dust covering optical components (such as lenses and solar panels).

Jet-proof water protection (Level 5):

Silicone sealing rings, waterproof rubber strips, and other technologies are used at the joints to withstand low-pressure water jets from any direction (such as daily rainfall, splashes from passing sprinkler trucks, or spraying during garden watering), ensuring no water enters the lamp and no short-circuiting occurs.

Passed the water spray test with a water flow of **12.5L/min** and a pressure of **30kPa for 15 consecutive minutes** without damage, equivalent to the protection capability against moderate to heavy rain.

In a laboratory simulation of **5 years** of outdoor environment testing, the light decay of IP65 lamps is **only 10%**, far exceeding that of ordinary lamps (25% light decay).

The dust-proof design reduces dust accumulation on solar panels. Combined with a **self-cleaning coating**, it automatically washes away dust in rainy days, **increasing** power generation efficiency by **15%!**

Self-Cleaning Design

The self-cleaning design of Integrated Street Light is a practical feature tailored for complex outdoor environments. It enables continuous and efficient power generation, ensures lighting stability, significantly enhances the reliability of street lamps, and reduces maintenance costs.

This design is particularly suitable for installation in high-pole areas, remote regions, or areas with heavy dust and rainfall.

Automatic Obstacle Removal to Improve Power Generation Efficiency.

视频 1

Driven by a motor or natural forces (such as wind and rain), the brush regularly cleans pollutants like dust, fallen leaves, and bird droppings from the surface of solar panels, preventing light obstruction and subsequent power generation decline.

In dusty weather, the light transmittance of solar panels without a cleaning design may drop below 50% within 3 days. In contrast, the self-cleaning brush keeps the light transmittance **above 90%**, increasing power generation by 20%-30% under the same lighting conditions.

In industrial parks with dense dust, the high-frequency sweeping of the brush prevents fine particles from accumulating into stubborn stains, maintaining stable power supply.

Ultra-Long Battery Life, All-Weather Intelligent Guard

Relying on a large-capacity lithium battery (optional 20Ah-100Ah), the Integrated Street Light supports 365-day continuous lighting, easily meeting full-night demand.

The specially designed low-power standby circuit and intelligent power regulation technology ensure basic lighting can still be maintained in extreme environments (such as continuous rainy days), balancing long-term battery life with flexible response. The Integrated Street Light truly achieves "one charge, worry-free operation" and can remain lit for 365 days without shutdown.

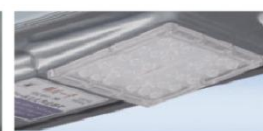


Product advantages

- ✓ No need to install the battery
- ✓ No need to install solar panels
- ✓ No need to do cumbersome construction again
- ✓ Easy to install in minutes
- ✓ Color and power can be customized



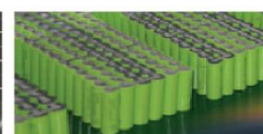
High transmittance lens



Imported chip light source



High efficiency solar module



High quality lithium battery

About us

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