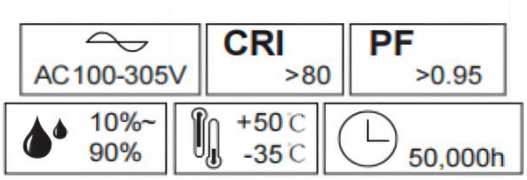
主图 1-4

Outdoor Solar Up Lights

- ✓ Waterproof and moisture-proof, with strong weather resistance.
- ✓ Professional outdoor street lights, suitable for various scenarios.
- ✓ Equipped with anti-electric shock safety design.
- ✓ Using high-quality monocrystalline silicon batteries.

Product Introduction

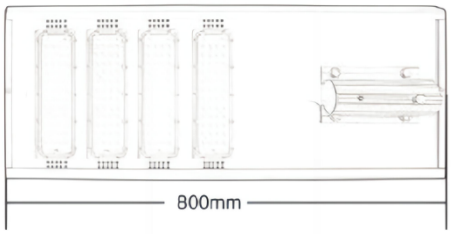


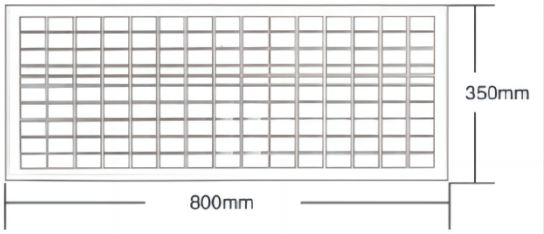
- ✓ The casing of Outdoor Solar Up Lights is made of IP65 waterproof-rated materials (such as ABS engineering plastic and aluminum alloy), which can withstand rain, dew, and even short-term water accumulation, making it suitable for outdoor humid environments.
- ✓ Outdoor Solar Up Lights adopt multiple safety designs to completely eliminate electrical risks and ensure the safety of users and equipment.
- ✓ Outdoor Solar Up Lights use highly pure monocrystalline silicon wafers, featuring a stable structure and strong anti-attenuation capability. The service life of Outdoor Solar Up Lights can exceed 25 years, and they can still maintain high power generation efficiency after long-term use.
- ✓ The Outdoor Solar Up Lights can intelligently adapt to different heights.



Technical parameters

Size	800mm×350mm×50mm
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	7-8m





Waterproof and moisture-proof

IP65 professional waterproofing: With a seamless sealing structure, Outdoor Solar Up Lights is fully resistant to heavy rain, snowstorms, and water splashing. The lamp body can be directly rinsed, making it ideal for rainy southern regions or coastal areas.



UV-resistant and anti-aging materials: The lampshade is crafted from UV-resistant PC material with a sun-protective coating, preventing the shell from fading or embrittlement due to long-term sun exposure. It remains non-yellowing, non-cracking, and deformation-free for 5 years (compared to ordinary plastics that embrittle within 1–2 years).

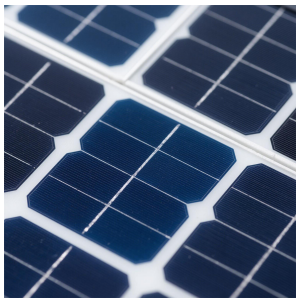
Stable operation across a wide temperature range: Outdoor Solar Up Lights functions normally in temperatures ranging from -20°C to 50°C, ensuring no downtime in winter and continuous operation in extreme heat, adapting to climates in various regions.

Sturdy structure: The base is available in ground-insert, wall-mount, or counterweight designs, allowing secure fixation on lawns, flower beds, walls, or hard surfaces to withstand strong winds and prevent tipping.

High-Quality Monocrystalline Silicon Batteries

The solar panels of Outdoor Solar Up Lights adopt monocrystalline silicon or polycrystalline silicon technology. The monocrystalline silicon cells offer a conversion efficiency of 18%-22%, with strong power generation in low-light conditions and superior performance on cloudy days.

Equipped with high-purity monocrystalline silicon solar panels, they lead the industry in light-to-electricity conversion efficiency, requiring only 6 hours of daily sunlight to fully charge. Outdoor Solar Up Lights can sustain illumination for 3-5 nights during rainy days without power interruption.



Outdoor Solar Up Lights with a service life of over 25 years, they have stronger resistance to PID (Potential Induced Degradation) and UV aging. Their low temperature coefficient results in minimal efficiency loss in high-temperature environments, making them suitable for hot regions. Outdoor Solar Up Lights can be paired with double-sided modules and tracking brackets to enhance power generation.

Dimension	Outdoor Solar Up Lights	Traditional Mains-powered Lights
Energy Cost	0 electricity cost, lifetime free solar energy	High electricity cost, long-term expense
Installation Cost	No wiring required, installation cost 20-50% lower	Requires trenching and cabling, high cost
Service Life	Over 25 years	5-10 years (fixtures prone to damage)
Safety	Low-voltage DC, no electric shock risk	High-voltage AC, potential leakage hazards

Electric Shock Protection

Battery Safety Protection

Overcharge/Overdischarge Protection: Built-in BMS (Battery Management System) monitors the voltage of lithium batteries in real time. When the voltage drops below the protection threshold (e.g., 2.5V) or exceeds the upper limit (e.g., 4.3V), the circuit is automatically cut off to prevent battery swelling, fires, and potential electric shock hazards.

Short Circuit Protection: Fuses or resettable fuses are integrated into the circuit. In case of a short circuit, they rapidly blow within 0.1 seconds to disconnect the current path.

Full-body Insulating Materials

Housing Materials: Made of ABS engineering plastic, PC flame-retardant materials, or insulated aluminum alloy (with surface insulation coating), featuring a conductivity lower than 10^{-12}S/m to block current conduction from the source.

Joint Sealing: Silicone rubber sealing rings are used at the connections of various lamp components (e.g., between the lampshade and base), achieving an IP65 or higher waterproof rating to prevent rainwater from penetrating and causing circuit short circuits.



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**





About us

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