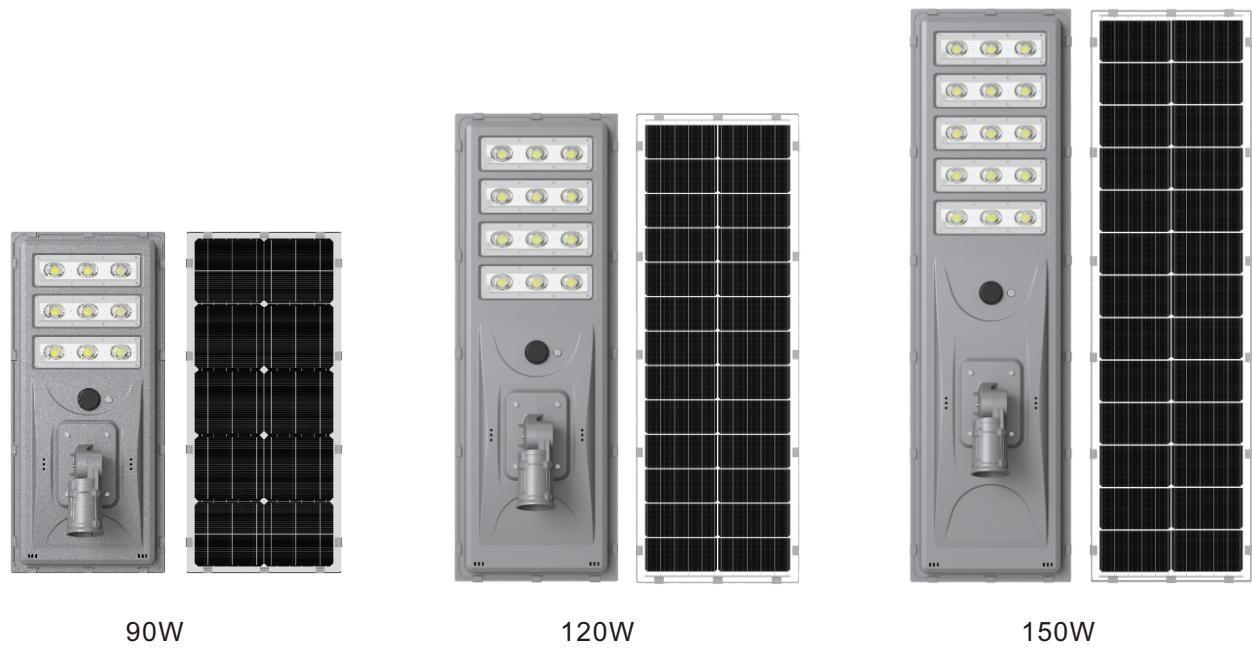


SPECIFICATION OF SOLAR STREET LIGHT

1. Product Overview

This product is a new integrated solar street lamp patented by our company, which is designed to provide users with high-quality outdoor lighting solutions. It has passed many international certifications such as CE and RoHS, and has the advantages of no wiring, convenient installation, high charging efficiency, long battery life and outstanding light efficiency. Built-in large-capacity lithium battery can efficiently convert and store electric energy through solar panels to provide continuous lighting. Suitable for courtyards, parks, communities, rural roads, urban sidewalks, highways and other scenes, it can meet the lighting needs of different environments and provide safe and environmentally friendly green lighting support for outdoor activities.



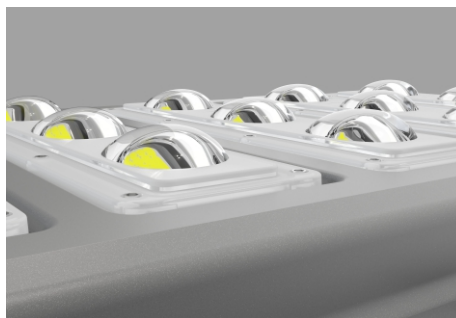
2. Product parameters

Model	HY-FT1-90	HY-FT1-120	HY-FT1-150
Lamp body material	Die cast aluminum with galvanized sheet	Die cast aluminum with galvanized sheet	Die cast aluminum with galvanized sheet
Lens material	PC UV resistant and fire-resistant	PC UV resistant and fire-resistant	PC UV resistant and fire-resistant
Lamp body size	887x400x65mm	1159x400x65mm	1436x400x65mm
LED Qty	135PCS/SMD3030	180PCS/SMD3030	225PCS/SMD3030
Battery capacity	LiFeCoPO4 52Ah	LiFeCoPO4 65Ah	LiFeCoPO4 90Ah
Photovoltaic panels	mono (6V/18V) /65W	mono (6V/18V) /85W	mono (6V/18V) /105W
Photovoltaic panel size	882x396mm	1154x396mm	1431x396mm
Color temperature	6000K-7000K	6000K-7000K	6000K-7000K
Charging time	Effective light exposure for 4-6 hours	Effective light exposure for 4-6 hours	Effective light exposure for 4-6 hours
Discharge time	3-5 rainy days	3-5 rainy days	3-5 rainy days
Radar induction	YES	YES	YES
Product Features	Intelligent light control+switch button	Intelligent light control+switch button	Intelligent light control+switch button
Waterproof grade	IP65	IP65	IP65
Suggested installation height	5-7M	6-8M	7-9M
Luminous efficacy	190LM/W	190LM/W	190LM/W

3. Product advantages

1. High lumen, brightness increased by 30%

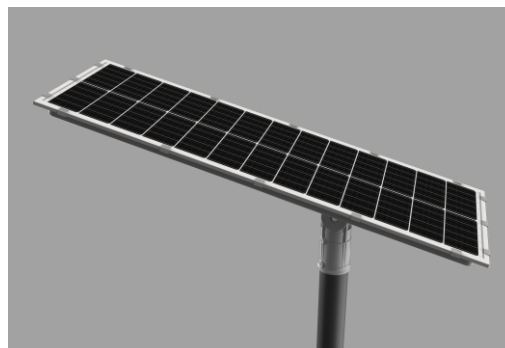
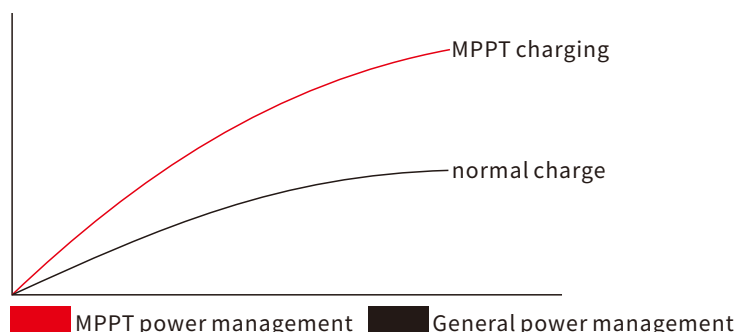
This product adopts LED optical lens design, which can effectively concentrate the light from the light source, improve brightness, reduce light loss, and improve the light efficiency by more than 20% compared to ordinary lenses. At that time, the lenses of the product were made of PC UV resistant and fire-resistant materials, with a processed light transmittance of up to 92%, much higher than the 80% of glass; Overall lighting efficiency increased by 30%, illuminated area increase by more than 25%.



Note: The lens of this product can be used normally within the high temperature range of 125 °C and the low temperature range of -40 °C. The lens will not turn yellow or brittle within 5 years. This material has passed multiple international certifications.

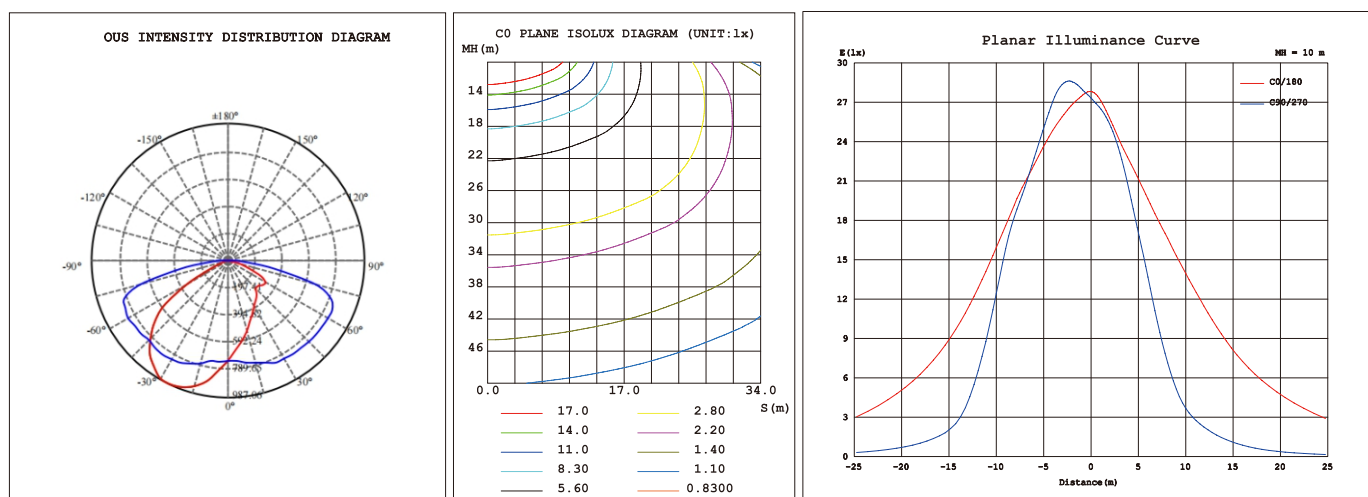
2. P-Mos charging increases charging efficiency by 20%

The conversion efficiency of monocrystalline photovoltaic panels is relatively high, usually reaching over 24% and up to 26%. The conversion efficiency of polycrystalline photovoltaic panels is relatively low, usually around 17%. The crystal structure of single crystal photovoltaic panels is relatively orderly, with high thermal shock resistance, and can work for a long time in high temperature environments without significant performance degradation. Polycrystalline Photovoltaic panels are prone to structural changes in grain size under high temperature conditions, leading to performance degradation.



3. Increase the central illumination and expand the coverage of illumination

Through scientific optical design and innovative three lens structure, not only has the central illumination been improved, but the illumination coverage has also been expanded. Through professional optical design, we have adopted The 80 * 170 ° optical lens has a 25% larger illuminated surface area than the traditional 120 degree illumination angle when installed at the same height.

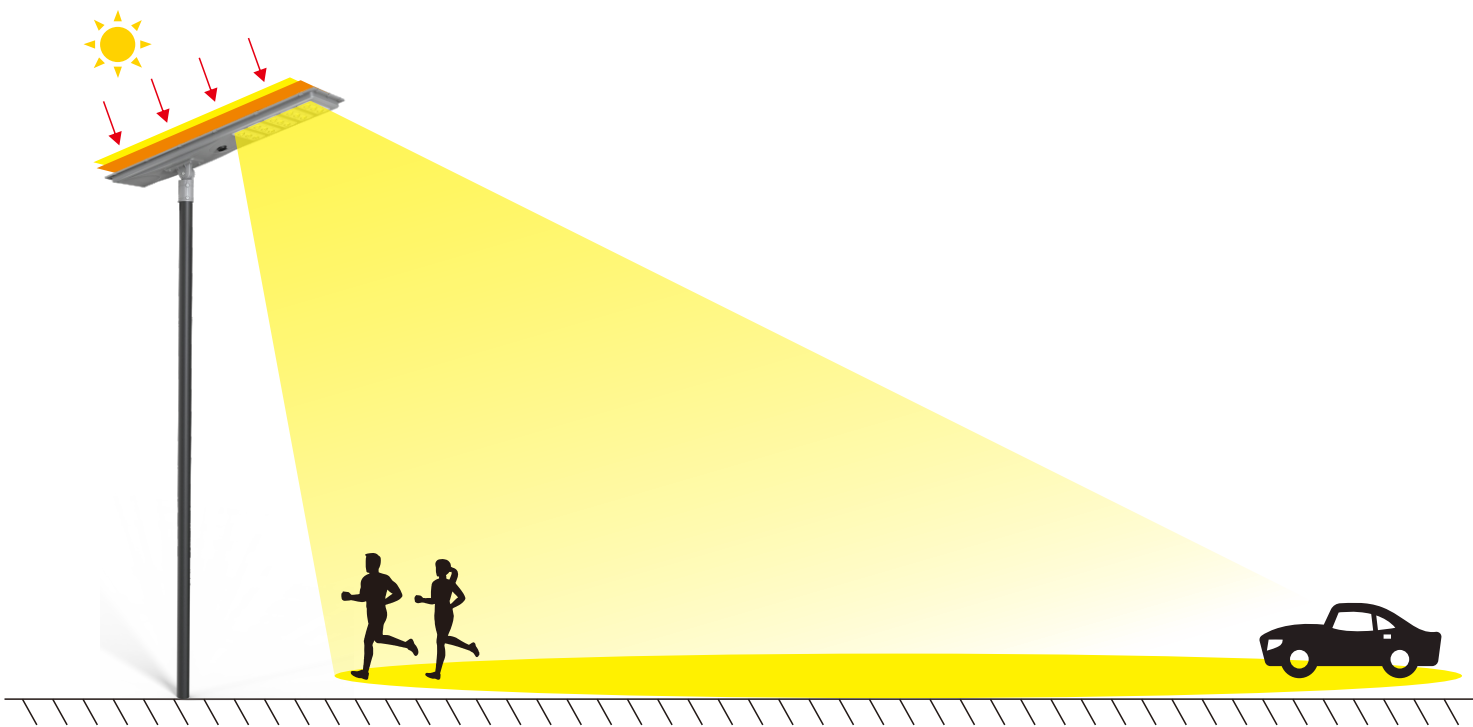


4. Intelligent power management system, automatic power distribution at night

Committed to meeting customers' demand for "365 days, dawn", our company's intelligent power management system not only has higher charging efficiency, but also actively identifies the dayThe charging capacity can be adjusted independently to achieve better results on rainy days.

5. Radar induction

Radar induction is a microwave induction technology that detects the movement of targets by emitting electromagnetic waves. When people or vehicles enter the sensing range, microwave signals will reflect and undergo changesThe sensor receives this change and triggers the light to turn on or adjust the brightness. Applying radar sensing in integrated solar street lights can maintain low brightness when there is no one presentDegrees, saves energy, automatically switches to high brightness when someone is present, ensuring safety. At the same time, radar sensing responds quickly, adapts to environmental changes, and is insensitive to temperature and weather, making the streetlights fully functionalWork efficiently around the clock. This technology makes solar street lights more intelligent, reliable, and energy-efficient.



5. Packing information



MODE NO	Package size (CM)	PCS	N.W(KG)	G.W(KG)
HY-FT1-90	91x41x16	2	8KG	18KG
HY-FT1-120	118x41x16	2	9.5KG	26KG
HY-FT1-150	146x42.5x16	2	14KG	31KG
base	34.5x22.5x11	2	1.2KG	2.5KG

5. Multi angle images



7.Scene application diagram

