

Solar Street Light Include AC + Solar

1. Product Overview

This product is our patent product, designed to provide users with high-quality solar street lamp, has passed CE, FCC RoHS international certificate. "Wiring free, easy to install", "high charging efficiency", "strong endurance" and "outstanding light efficiency" is the main advantage of this product. Large capacity LiFePO4 battery is built into the lamp body, which can absorb solar energy and convert it into electric energy by solar panel, it is stored in the battery and then supplied to the solar lamp. Products are widely used in street, road, path, farm, courtyard, highway and other areas.

2. Product Design



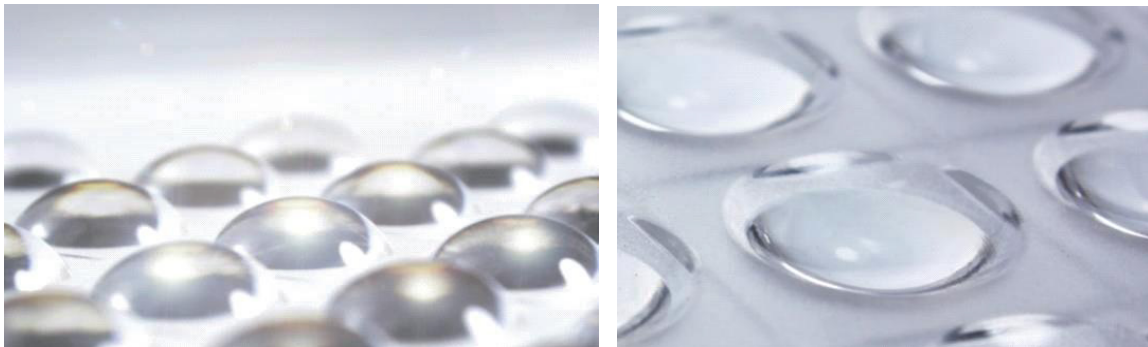
3. Product parameters

Model	MS-24741	MS-24751	MS-24761	MS-24771
Material	Die casting aluminum Teijin PC	Die casting aluminum Teijin PC	Die casting aluminum Teijin PC	Die casting aluminum Teijin PC
Rated Power	300W	400W	500W	600W
Lamp body size	530x260x80mm	615x300x80mm	615x300x80mm	615x300x80mm
LED Qty	SMD5050 64 pcs	SMD5050 90 pcs	SMD5050 90 pcs	SMD5050 90 pcs
Battery capacity	LiFePO4 30Ah	LiFePO4 36Ah	LiFePO4 48Ah	LiFePO4 60Ah
Solar Panel	5V/40W (480x400mm)	5V/45W (530x400mm)	5V/50W (590x400mm)	5V/60W (670x445mm)
Discharge time	Two rainy days	Two rainy days	Two rainy days	Two rainy days
Discharge current	3.3V/5A	3.3V/6.3A	3.3V/6.8A	3.3V/7.5A
Luminous flux	2650LM	3358LM	3512LM	3840LM

4. Product advantages

4.1 High lumen, brightness increased by 30%

This product adopts LED optical lens design, the lens can effectively gather the light of the light source to improve the brightness and reduce the light loss. The light efficiency of the traditional reflective cup is increased by more than 20%. At the same time, the lens of this product is made of PC (Teijin Brand from Japan) material, and the transmittance after processing is as high as 92%, It is much higher than 80% of the glass transmittance; the whole lighting efficiency is increased by 30%, and the irradiation area is increased by more than 25%.

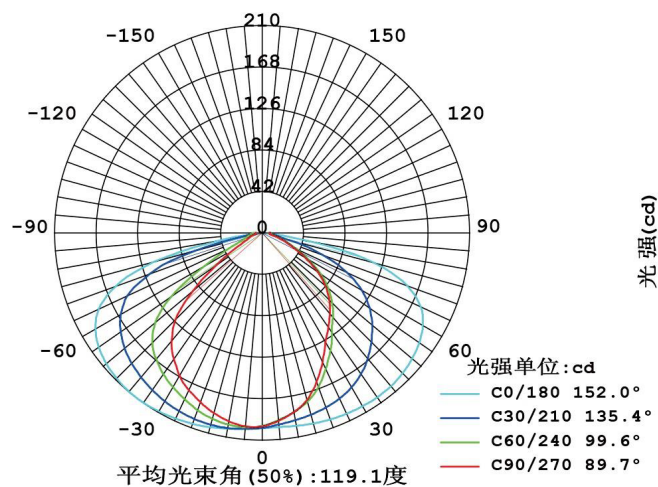


Note: the lens of this product can be used normally in the high temperature range of 125°C and the low temperature of - 40°C. The lens will not be yellowing and brittle within 5 years. The material has passed many international certifications.

4.2 Large luminous angle, 25% increase in irradiation area

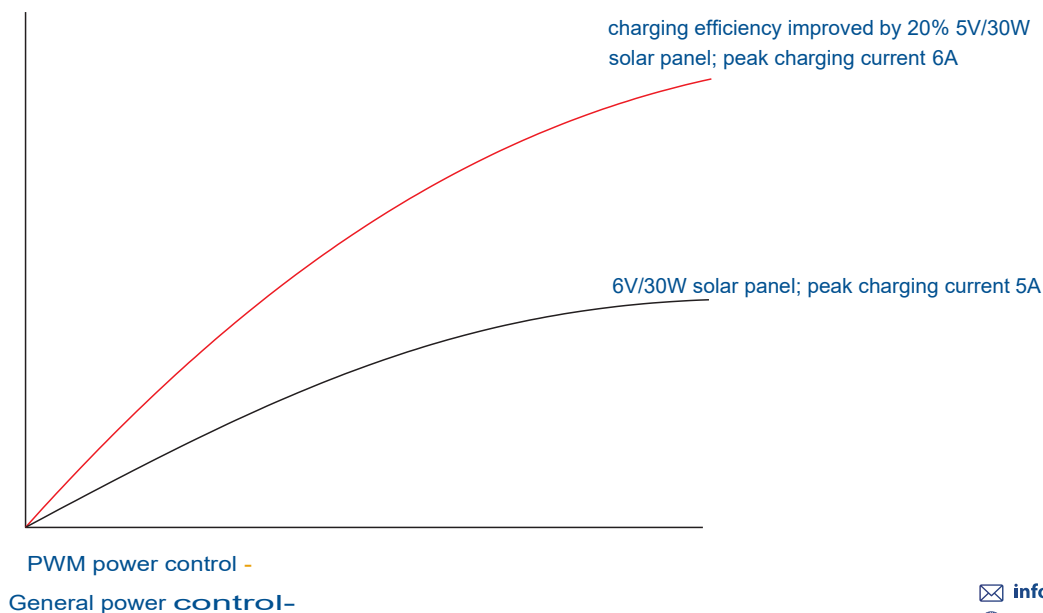
Through professional optical design, this product is equipped with an optical lens of 150 * 70, and the luminous angle is at the same installation height, 30% larger than the traditional 120-degree irradiation area.

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



4.3 P-Mos charging, charging efficiency increased by 20%

This product solar controller through PWM control P-MOS charging, unique charge and discharge management system, with more efficient, charge and discharge efficiency. For example: 6V / 30W photovoltaic panels are commonly used in the market, and the peak charging current is 5A; this product uses 5V / 30W photovoltaic panels, The charging peak current is 6a, and the charging efficiency is increased by 20%.



4.4 Smart power management system, extra-long battery lifespan

We are committed to meet the needs of customers "365 days, daily brightness", our company has developed a smart power management system in cooperation with the University of Electronic Science and Technology to make sure our product not only has higher charging efficiency, but also can actively identify the amount of charging per day, so as to independently adjust the capacity to achieve a better rainy-day efficiency.

6.instruction of remote controller

Light Operation Mode:

Once the weatherproof cable is connected and tightened, by pressing the [AUTO] key, the lamp will automatically turn on when dark falls, and will turn off the charge once the sun rises.

