60W 80W 100W Solar LED Street Light High Power 150LM/W 6000K IP65 Black Shell Street Lamp

Our Product Introduction

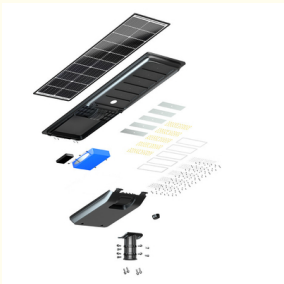
Basic Information

- Place of Origin: China
- Brand Name: Yahua lighting
- Certification: CE ROHS IES
- Packaging Details: Foam+Carton
- Delivery Time: 5-8 Days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 3000pcs per month

Product Specification

- Power: 60W 80W 100W
- Charging Time: 6-8 Hours
- Luminous Efficiency: 150-160LM/W
- Color Temperature: 5000-6000K
- CRI: >70
- Lifespan: 50000 Hours+
- Working Temperature: -25°C-60°C
- IP Grade: IP66
- Shell Color: Black
- Warranty: 3-5 Years
- Highlight: **6000K Solar LED Street Light**, **IP65 Solar LED Street Light**

More Images



Our Product Introduction

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Product Description

Products Description

Presenting our High Power LED Solar Street Light, offered in three power variants: 60W, 80W, and 100W. It boasts a rapid charging time of 6-8 hours, harnessing solar energy efficiently to power its LED system. With a high luminous efficiency of 150-160LM/W, it delivers bright and uniform illumination, enhancing visibility and safety in outdoor spaces. The color temperature of 5000-6000K provides a natural daylight-like lighting experience, ensuring optimum visibility and comfort. Additionally, the Color Rendering Index (CRI) surpasses 70, guaranteeing precise color representation, and making it suitable for diverse outdoor environments.

Features:

1. Enhanced Waterproofing: The High Power LED Solar Street Light is engineered with IP65 advanced waterproofing and lightning protection, ensuring durability in diverse outdoor environments and weather conditions, capable of withstanding rain, snow, and other harsh elements. It features a wide working temperature range of -20°C to 65°C.
2. Smart Light Control: This street light features intelligent light control technology, automatically activating the light at dusk and deactivating it at dawn while initiating the charging process. Users can adjust lighting time, brightness, and mode, and control the RGB light's on/off function conveniently via remote control.
3. Microwave Sensor Technology: Incorporating a robust microwave sensor, this street light exhibits strong anti-interference capabilities, maintaining stability and reliability amidst external natural factors. The sensor autonomously measures the ambient light intensity and adjusts the lighting accordingly, activating the light upon detecting individuals, effectively conserving power and preventing interference from external factors like sound or objects.
4. Solar Charging Efficiency: With polysilicon photovoltaic panels optimizing solar charging, these panels increase the photoelectric conversion rate by 25%, ensuring efficient energy conversion. It only requires 6-8 hours of sunlight exposure to fully charge the built-in 22000mAh high-capacity lithium battery. In radar sensing mode, the LED solar street light can provide illumination for approximately 20-24 hours, based on specific usage patterns.

Technical Parameters

Power	60W	80W	100W
Battery	LiFePO4 12.8V 32AH	LiFePO4 12.8V 40AH	LiFePO4 12.8V 48AH
Mono solar panel	18V 80W	18V 100W	18V 120W
Charging time	6-8 hours		
Luminous efficiency	150-160LM/W		
Luminous flux	8400-9600LM	11200-12800LM	15000-16000LM
Color temperature	5000-6000K		
Working temperature	-25°C-80°C		
CRI	>70		
Beam angle	140*70°		
Lifespan	50000 hours+		
LED type (Qty)	Lumileds 5050 (150 PCS)	Lumileds 5050 (200 PCS)	Lumileds 5050 (250 PCS)
Installation height	6-7M	7-8M	8-10M
IP Grade	IP65-IP66		

What Wattage Do I Need for Solar Street Lighting?

1. Establish the required light intensity: Initially, calculating the desired level of illumination for the street light is key. This measure is often expressed in lux or foot-candles, with lux being the preferred unit of measurement. The recommended light intensity for street lighting typically ranges from 10 to 30 lux, contingent on the application and local regulations.
2. Account for pole height and illuminated area: The pole's height and the area intended for illumination by the street light are decisive factors in determining the necessary wattage. Taller poles and larger areas necessitate high-power LED Solar Street Lights to achieve the desired level of illumination.
3. Evaluate the geographical location: The availability of sunlight in your geographic location is crucial for sizing a solar street light system. Varying regions receive differing levels of solar radiation, impacting the solar panels' efficiency and the energy they can generate. It's important to consider the average daily sunlight hours in your area to ascertain the appropriate wattage.
4. Consider weather conditions and backup requirements: In regions with frequent cloudy days or adverse weather, consideration of a higher wattage to compensate for reduced solar energy generation may be required. Additionally, if backup power is needed to operate the street light during extended periods of limited sunlight, such as during winter months, a larger solar panel and battery capacity may be necessary.

Consultation with a professional or a solar lighting manufacturer is crucial to accurately determine the wattage requirement for your specific application. By considering all relevant factors, we can provide a tailored solution that meets your needs. Please feel free to contact us if you have any further requirements.

Shaanxi Yahua Lighting Electric Equipment Co., Ltd.

+86 2981028690 summer@sxyhzm.com solarledstreet-light.com

No.1 Xinxi Avenue New Industrial Park, Hi-tech Zone, Xi'an,China