12V DC Integrated Solar Street Lamp 170 Lm/W Aluminum Shell LED Street Light

Our Product Introduction

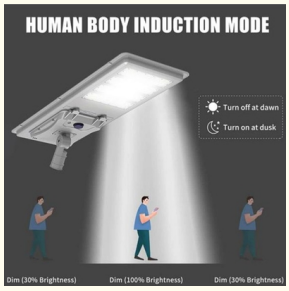
Basic Information

- Place of Origin: China
- 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: 150/200/300W
- Lumen(LM): >10000 Lumen
- Color Temperature: 5000K-6500K
- Battery: LifePO4 Battery 85Ah 12.8V
- Solar Charging Time: 6 Hours By Bright Sunlight
- Motion Sensor: Yes(Microwave Sensor)
- Remote Control: Yes(1pc Remote Control Per Lot)
- Waterproof: IP65
- Working Temperature: -25℃ To 65℃
- Highlight: **Integrated Solar Street Lamp 170Lm/W**, **12VDC Integrated Solar Street Lamp**, **Aluminum 60w Integrated Solar Street Light**

More Images



Our Product Introduction

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Product Description

Products Description

Introducing our advanced 12V DC Solar Street Lamp, specifically designed for off-grid locations. This cutting-edge street light features an integrated monocrystalline silicon solar panel with a remarkable 30% higher conversion rate than traditional panels, ensuring optimal energy utilization. With an impressive light efficiency of 170 lm/W, it delivers bright and sustainable illumination, achieving exceptional lighting performance. Equipped with a high-capacity battery that requires only eight hours of charging to provide continuous lighting for three days, this solar street lamp offers reliable and uninterrupted operation. It also features a motion sensor and light flow control, allowing for personalized lighting schedules to comply with regulations. Additionally, it provides versatile mounting options and an adjustable incline angle to accommodate various installation requirements.

Features:

- Utilization of Clean and Renewable Solar Energy: The 12V DC Solar Street Light employs a monocrystalline silicon photovoltaic panel with a 30% higher conversion rate than traditional solar panels, effectively harnessing clean and renewable solar energy. The integration of a new generation LiFeP04 lithium battery enhances the storage and energy capacity, offering three times the capability of conventional batteries, thereby improving the sustainability and reliability of the lighting system.
- High Lighting Efficiency: Constructed using high-quality aluminum alloy, this solar street light excels in lighting efficiency. The implementation of SMD LED Lumileds technology ensures a luminous efficiency of 170 lm/W, providing bright and dependable illumination. Additionally, the polycarbonate optical lens offers IK08 protection, guaranteeing the overall outdoor solar street light's safety, durability, and longevity.
- Motion PIR Sensor: Equipped with a PIR motion sensor, this LED solar street light optimizes its operation to ensure the necessary light intensity every night, year-round. The sensor enables the outdoor solar street light to cover a wide detection area with an angle of detection (Θ) = 60° and a detection range of Height (H) = 7m and Width (D) = 8m, ensuring comprehensive and responsive illumination.
- Adjustable Angle: The 12V DC Solar Street Light can be adjusted ±15°, providing secure and stable placement for precise and comprehensive coverage. This adjustable angle feature maximizes the illuminated area, offering adaptable and customizable lighting solutions for various outdoor environments.

Technical Specifications

Power	150W	200W	300W
Material	Aluminum housing		
Solar Panel	Mono 6V 60W	Mono 6V 80W	Mono 6V 100W
LED High bright	3030 LED lamp		
Lighting efficiency	150-160Lm/w		
Battery	LiFepo4 battery 3.2V 80AH	LiFepo4 battery 3.2V 100AH	LiFepo4 battery 3.2V 120AH
Color temperature	5500-6000K		
Mounting Height	6-7m	7-8m	8-9m
Backup Time	3-5 rainy days		
Working Temperature	-20℃~+60℃		
Working mode	Auto ON/OFF+Time Dimming		

The Function of DC Power Supply in Solar Street Lights:

1. Energy Storage: Solar streetlights harness sunlight to generate electrical energy via solar panels, which are initially stored in DC batteries. These batteries, typically lithium-ion or lead-acid, charge during the day and provide the necessary energy for lighting during the night or in inclement weather conditions.
2. Power Supply for Lamps and Fixtures: LED lamps and other components in solar street lights typically require a DC power supply to operate. The DC power supply ensures a stable and reliable power source for these devices, enabling our 12V DC Solar Street Light to function properly during the night.
3. Support for Control Systems: By utilizing a DC power supply, solar street lights can provide power to the control system, enabling control over the brightness, switching, and sensing functions of the lamps. These control systems can intelligently adjust the brightness and switching status of the street lights based on ambient lighting conditions, motion sensors, and other factors, thereby enhancing energy efficiency and conserving energy.

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