



Shaanxi Yahua Lighting Electric Equipment Co., Ltd.

solarledstreet-light.com

Automated Solar LED Street Light MPPT Controller Mono Solar Panel 150lm/W Luminous Flux

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong China
- Brand Name: Yahua Solar Street lighting
- Certification: CE IP65 ROHS ISO
- Packaging Details: Anti-collision and shatterproof packaging
- Delivery Time: 5-8 days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 3000pcs/month



Product Specification

- IP Rating: IP65 Waterproof
- Luminous Flux: 150lm/w
- Material: Aluminum Alloy
- Battery: Lithium Iron Phosphate Battery
- Application: Road, Street, Yard, Park, Garden Etc
- Color Temperature: 3000K-6500K
- Warranty: 5 Years
- Lighting Mode: Remote Control+Light Control+Radar Sensor
- Highlight: **3000K Automated Solar LED Street Light, Aluminum LED Solar Street Lamp Waterproof, MPPT Controller 80W Solar Street Light**



More Images



Product Description

Product Description:

Our integrated solar-powered LED street lighting solution is a sophisticated and efficient automatic system that harnesses solar energy for sustainable operation. Utilizing cutting-edge Lithium Iron Phosphate battery technology ensures an extended lifespan and exceptional performance. With a lighting mode featuring remote control, light control, and radar sensor capabilities, this system offers advanced functionality.

Achieving a maximum luminous flux of 150lm/w, it operates reliably across a broad temperature range from -40°C to 60°C. Furthermore, this integrated solar LED light holds certifications in EMC, RoHS, CE, FCC, and LVD, underscoring its superior quality and outstanding performance. Whether for residential or commercial use, this eco-friendly and cost-effective solar-powered LED street lighting solution presents a compelling choice for all your lighting needs.

Features:

1. **High Luminosity:** The solar LED streetlight offers magnificent high luminosity, ideal for lighting up outdoor spaces without the need for mains connection.
2. **Efficient Solar Panel:** Featuring a monocrystalline solar panel, the streetlight boasts superior efficiency, achieving up to 20% solar energy collection compared to standard polycrystalline panels.
3. **Advanced Battery:** Equipped with a high-life, high-capacity lithium-ion (LiFePO₄) battery, the streetlight ensures reliable power storage for extended usage.
4. **MPPT Management System:** The streetlight incorporates an MPPT regulation system, optimizing battery control for enhanced protection and extended lifespan, as well as maximizing luminaire performance efficiency.
5. **All-Weather Charging:** With the MPPT controller, the solar LED luminaire can effectively charge even on cloudy days, ensuring continuous functionality regardless of weather conditions.
6. **Remote Control Functionality:** The lantern features a radio frequency remote control, allowing for convenient programming to align with seasonal requirements.



Technical Parameters:

IP Rating	IP65
CRI (Ra>)	75

Input Voltage(V)	DC12/24V
Lamp Luminous Efficiency(lm/w)	180
Lamp Luminous Flux(lm)	>14400
Working Temperature(°C)	-20 - 60
Color Rendering Index(Ra)	80
Certification	BV, CCC, CE, RoHS, SASO
Power Supply	DC
Support Dimmer	Yes
Lifespan (hours)	50000
Working Time (hours)	50000
Color Temperature(CCT)	Cool White
LED Light Source	Bridglux
Lamp Luminous Efficiency(lm/w)	150
Keyword	Solar Street Light
Solar panel	Monocrystalline Silicon
Battery	Lead-acid Battery
Charge time	6-8 Hours
Power	30w/40w/50w/60w/80w/100w/150w/200w

Applications:

Yahua Solar Street Lighting is a brand name for automated solar LED street lights with CE IP65 ROHS ISO certification. This solar energy-powered street light is equipped with a Lithium Iron Phosphate Battery and an all-in-one solar street lighting model with an SMD3030 LED Chip and mono solar panel. It can be used on roads, streets, yards, parks, gardens, and other places.



What is an MPPT controller?

MPPT, or Maximum Power Point Tracking, is a technology used in solar charge controllers to maximize the amount of power obtained from solar panels. The key function of an MPPT controller is to optimize the operating point of the solar panels to ensure that the maximum power is extracted from them at any given time. This is achieved by continuously adjusting the output voltage and current of the solar panels to maintain the maximum power point, regardless of varying weather conditions, temperature, or sunlight intensity. The benefits of using an MPPT controller include:

1. **Improved Efficiency:** MPPT controllers can significantly improve the efficiency and power output of a solar power system, particularly in situations where the panels are exposed to varying sunlight conditions. This leads to increased energy harvest and better utilization of the available solar energy.
2. **Better Performance in Low-Light Conditions:** MPPT controllers enable solar panels to generate power even in low-light or cloudy conditions, making them more effective in less-than-ideal weather scenarios.
3. **Extended Battery Life:** By optimizing the charging process and preventing overcharging or undercharging, MPPT controllers can help extend the lifespan of the battery, leading to long-term cost savings and reduced maintenance.
4. **Flexibility and Adaptability:** MPPT controllers can accommodate changes in environmental conditions and adjust to the optimal operating point to maximize power generation, thereby offering adaptability and flexibility in real-time power conversion.

In summary, a solar power system with an MPPT controller can achieve higher energy efficiency, increased power output, and improved performance across varying environmental conditions, making it a valuable component in maximizing the potential of solar energy systems.

Support and Services:

Solar LED Street Light technical support and services involve providing customers with comprehensive technical support and services, such as installation, maintenance, and repair of solar LED street lights. We will provide customers with all the necessary information and resources to ensure that the installation of solar LED streetlights is smooth and efficient. Additionally, we will provide professional maintenance and repair services to ensure that the solar LED street lights are in good condition and functioning properly. We also offer free consultation services to help customers choose the best solar LED streetlights for their needs.

Our Company



Our Team



Work Shop



Equipment



Office Room



Our Team



Production Line



Quality Control

Packing and Shipping:

Solar LED Street Light Packaging and Shipping:

The product is securely placed in a corrugated cardboard box.

The package is sealed with tape for extra protection.

The shipping label with the tracking number is attached to the package.

The package is shipped to the customer via a reliable shipping company.

