

Solar Street Light 6V System





Overview

What is a solar street light system?

A solar street lamp system is a lighting system for the illumination of streets, roads, squares, and common public areas. It uses the sun's light to work. solar powered street light is the complete set of Solar Panel, Lithium Battery, Light, Charge Controller & Poles. There are two designs split solar street light and integrated solar street light.

How to choose a solar-powered street lighting system?

Understanding the power consumption of a solar-powered street lighting system is the first step in determining the appropriate specifications. The total energy consumption depends on the wattage of the LED fixture and its operating hours per night. Higher-wattage lights require larger battery storage and solar panel capacity. 2.

How to design a solar street light?

1. Solar Street Lighting Demand Design Formula: $P_{LED} = E \times A / (\eta \times U \times K)$
Example: Road width 6m, distance between lights 25m, target illuminance 20 lx → $P_{LED} = 20 \times (6 \times 25) / (0.85 \times 0.5 \times 0.75) = 20 \times 150 / 0.32 \approx 94W$ → Choose a 100W LED module (Luminous flux 15,000 lm) 2. Solar Street Light Photovoltaic System Capacity Calculation Steps: 3.

Which solar street lights are available?

Our All-In-One Solar Street Light is available in the SIRIUS (INL-AIO9), GALAXY (INL-AIO6), ALIEN (INL-AIO5), and POLARIS (INL-AIO2) series. Utilizing the latest integrated design, the lithium battery, solar controller, and solar panel are all housed within the light casing.



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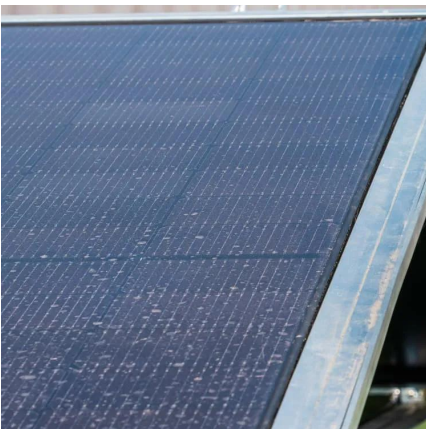


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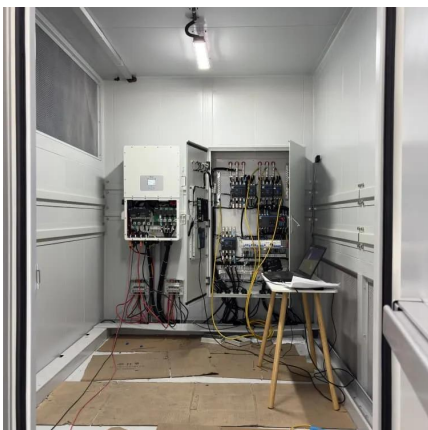


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