

Phnom Penh Lighting Solar Light Parameters





Overview

What are the key parameters of solar street lighting systems?

This article aims to introduce the key parameters of the solar street lighting systems, including the power of the street light, the wattage of the solar panel, the capacity of battery, the solar charge and discharge controller and the street light controller.

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.

How long do solar street lights last in Saudi Arabia & Cameroon?

For example, when installing solar street lights in Saudi Arabia and Cameroon, the choice of solar panels varies greatly. After checking, we learned that the effective sunshine duration in Saudi Arabia is 6.2 hours, while Cameroon only has 4.6 hours.

What are the features of a photovoltaic panel?

Over-discharge Protection: Controller sets voltage $\geq 10.8V$ (12V system). Theft Protection: Photovoltaic panel bolts use irregular structures, battery case welded and fixed. Extreme Weather: Photovoltaic panels hail resistance level \geq Class 3 (25mm hail impact).



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