

Inverter Solar Street Light





Overview

What is an-SLV solar street light?

AN-SLV series high-power commercial all in one LED solar street light is the latest cost-effective integrated outdoor solar led street lamp launched by Anern. The silver die-cast aluminum lamp body is equipped with a detachable battery box and COB LED lamp. The customized size is from 40W to 150W, suitable for different government projects.

What is a solar street light?

A solar street light is a raised lighting system powered by a photovoltaic (PV) module charging a battery that runs an LED luminaire at night. Modern systems are off-grid, smart-controlled, and designed to operate through low-sun periods. Pole/brackets & wiring, optional sensors/remote monitoring.

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.



Inverter Solar Street Light

RR-30AM-A3030-LY060-TX All-in-one solar street light

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All in One Integrated Solar Led Street Light (AN-SLV)

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Solar Street Light Customization Solution

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Solar Street Light Guide: Types, Sizing, and FAQs

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