

South Ossetia integrated solar street light





Overview

What is integrated solar street light?

The Integrated Solar Street Light (i.e. All in Two Solar Street Light) is integrated by the PV panel system and lamp fixture. Different with traditional solar street light, it split the whole solar led street light into two parts -- The solar power lighting system and the led fixture. Hence it's quite easy for installation and maintenance.

What is a solar street light system?

Every solar street light system is comprised of several key components: Solar Panels: Solar panels are the raison d'être of solar street lighting, the conduits through which sunlight is converted into electricity. Typically made from crystalline silicon or thin-film materials, they capture solar energy and convert it via solar cells.

Can solar street lighting be used as a mainstream lighting solution?

Their adoption of solar street lighting has significantly contributed to their viability as a mainstream lighting solution. Batteries: Batteries act as the system's energy storage unit, storing the electricity generated by the solar panels.

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 → $P_{LED} = 20 \times (6 \times 25) / (0.85 \times 0.5 \times 0.75) = 20 \times 150 / 0.32 \approx 94W \rightarrow$ Choose a 100W LED module (Luminous flux 15,000 lm)
2. Solar Street Light Photovoltaic System Capacity Calculation Steps: 3.



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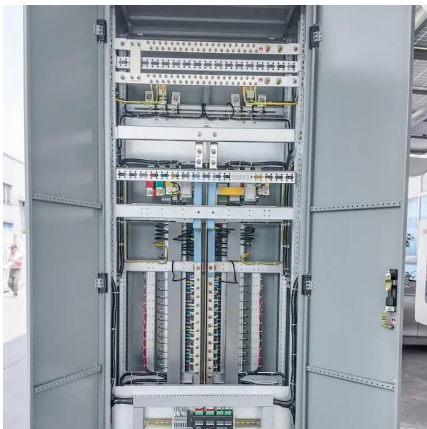


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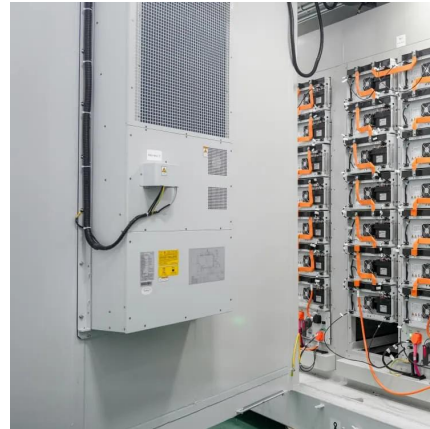


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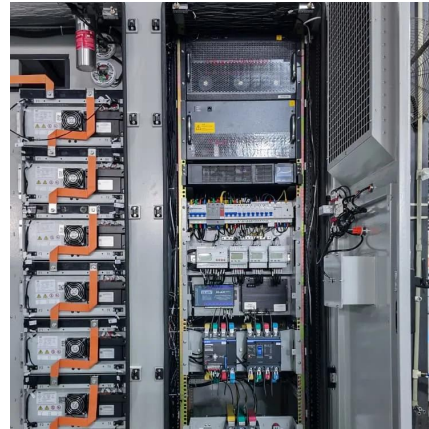
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Integrated solar street light integrated by solar lighting system and LED fixture, it's able to extend to a bigger power in a simple way with our patent design.



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