

How to Choose the Right All in Two Solar Street Light for Your Project

Infographic



Lighting Power and Brightness

Select wattage and lumen output according to road width, mounting height, required illumination, and pole spacing. The ZC Series provides six power options from 40W to 120W.



Solar Panel Capacity

Evaluate the solar panel according to local sunlight conditions and daily energy requirements. The ZC Series supports 60W–170W solar panels, while its separate-panel design allows flexible positioning for better sunlight exposure.



Battery Capacity

Choose sufficient battery capacity to maintain lighting through nighttime operation and periods of poor weather. The ZC models use 12.8V LiFePO₄ batteries ranging from 15Ah to 60Ah.



MPPT Charging Technology

An efficient MPPT controller can improve solar-energy utilization and support dependable battery charging. This is particularly important for off-grid street lighting projects.



Smart Lighting Controls

Consider features such as automatic ON/OFF, programmable time dimming, motion sensors, and optional IoT monitoring. These functions can reduce energy consumption and simplify remote management.



Durability and Weather Protection

Outdoor lights should withstand rain, dust, impacts, and temperature changes. The ZC Series features IP66 and IK09 protection and an aluminium-alloy housing for demanding outdoor environments.



Project-Specific Configuration

Finally, consider the complete project design, including installation location, pole height, spacing, operating hours, target lux, and local solar conditions. Choosing a properly matched configuration helps maximize performance and return on investment.



Choosing the right **All in Two Solar Street Light** is essential for achieving reliable illumination, energy efficiency, and long-term performance in outdoor lighting projects. Unlike conventional lighting systems, an All in Two design separates the solar panel from the lighting unit, providing greater flexibility for solar-panel positioning. The ZC Series from Shenzhen Sungreat Energy Technology Co., Ltd. offers 40W–120W options, 7,200–26,400 lm output, LiFePO₄ batteries, and MPPT charging for different road and infrastructure requirements.

Key Points to Consider

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For reliable, flexible, and energy-efficient road lighting, the All in Two Solar Street Light can be an excellent choice for municipal roads, industrial areas, residential streets, campuses, and logistics parks. **Shenzhen Sungreat Energy Technology Co., Ltd.** provides configurable ZC Series solutions designed to meet diverse outdoor lighting requirements.

To find out more about **all in two solar street light**, visit <https://tinyurl.com/3d4ka9f3>, call us at **+86 15776467829**, or send us an email us at atadam@sungreatenergy.com