



ŁOTWA SYSTEM

Basic parameters of solar street light wattage





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 much solar power does a street light use?

For a street light that consumes 900WH, after calculation, the battery panel power required by the former $=900*1.333/6.2=193.5$ Wp, and the battery panel power required by the latter $=900*1.333/4.6=260.8$ Wp. From this we can conclude that the more sunlight there is, the smaller the solar panels you need and vice versa.

What is the battery capacity of solar street light?

Therefore, the actual battery capacity might be $210Ah*125\% = 262.5Ah$. Solar street light need work 7h each night, while it is about average 4.5h that solar panel can touch enough sunlight. The voltage of solar panel is 17.4V. It need configure more 20% for power of solar panel. So, $Wp=162W$.

How to design a solar street light system?

The first step in designing a solar street light system is to find out the wattage and energy consumption of the LED street lights, as well as the energy consumption of other parts that require solar power, such as WiFi, cameras, etc. How to calculate the total energy consumption of your solar system?



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