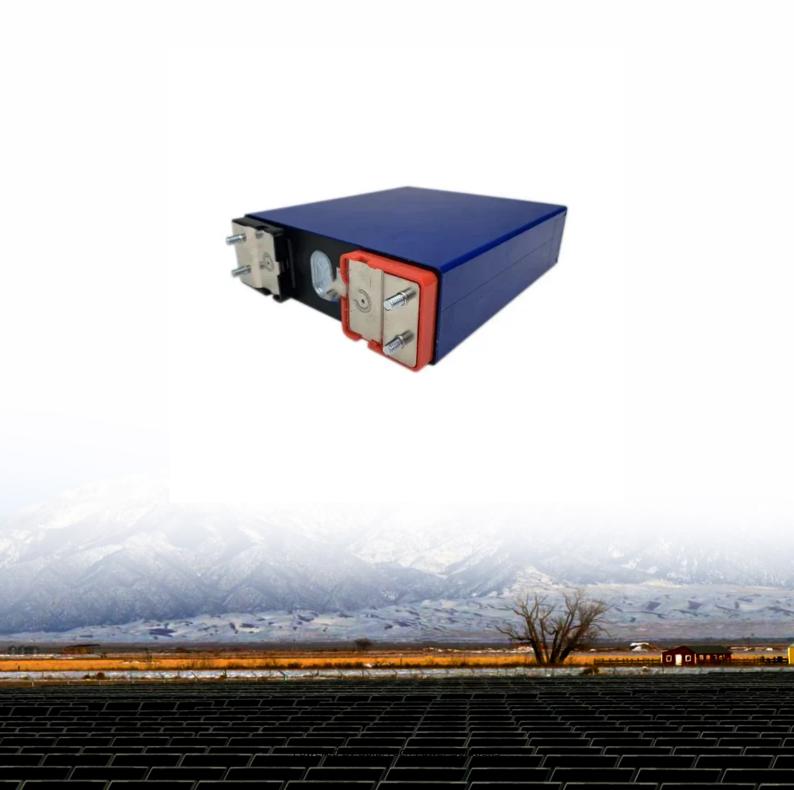


SolarTech Power Solutions

St Johns Solar Street Light Control System





Overview

Can automatic solar street light control system save energy?

CONCLUSION This paper elaborates the design and construction of automatic solar street light control system is a cost effective, practical, safety way and also provided a efficient way in saving the solar energy of the streetlights. This circuit works properly to go street sunlit ON/OFF.

What is a solar Streetlight?

the streetlight at night, en abling an autonomous energy supply. Compared to traditional solar street lights, this and improves system stability and reliability. Additionally, the system feature s intelligent control that adapts to vary ing lighting conditions, ensu ring eff icient operation in any environ ment. As a result, th is intelligent.

How to design a solar street light?

1. Solar Street Lighting Demand Design Formula: P LED = E × A / (η × U × K) Example: Road width 6m, distance between lights 25m, target illuminance 20 lx \rightarrow P LED = 20 × (6 × 25) / (0.85 × 0.5 × 0.75) = 20 × 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.

How a solar LED street lighting system works?

Providing this technic is one of the most important and expensive responsibilities of a city. The solar led street lighting system uses the solar radiation energy to charge the battery with the solar array during day time, and offer energy to the LED light equipment at night.

How does a solar street light controller work?

The basic function of the solar street light controller is of course controlling. When the solar panel absorbs the solar energy, the solar panel will charge the battery. At this time, the controller will automatically detect the charging



voltage and output the voltage to the solar street light, so that it will make the solar street light work.

What is solar LED street lighting?

The solar led street lighting system uses the solar radiation energy to charge the battery with the solar array during day time, and offer energy to the LED light equipment at night. This system has a double advantage in both usages of new energy and energy-saving.



St Johns Solar Street Light Control System



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(PDF) Street Light Control System

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- - -

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Design And Construction Of An Automatic Solar Street Light ...

ABSTRACT This project work is titled design and construction a solar Street Light Control system. A street lighting is any electrical lighting that is fixed in the road for the illumination of such ...

Design And Construction Of An Automatic Solar Street Light ...



This project deals with the design of a solar street light. This device uses panels to convert the solar power into electricity. It is also quick and easy to charge the batteries and the control is ...



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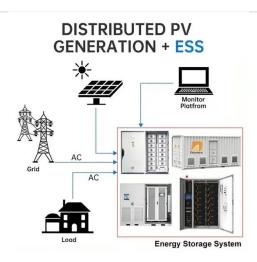
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