



WALMER ENERGY

Specifications of 10MW Solar Containerized Lighting Units for Urban Lighting





Overview

What is a solar street lighting system?

A lighting system is an outdoor lighting unit used for illuminating a street or an open area. A solar street lighting system consists of a PV Module, control electronics, storage battery, W-LED based Lu inaire, inter connecting cables and module mounting pole including hardware and battery box. The luminaire is based on White Light Emitting D.

How to design a solar street light?

1. Solar Street Lighting Demand Design Formula: $P_{LED} = E \times A / (\eta \times U \times K_{lx})$
Example: Road width 6m, distance between lights 25m, target illuminance 20 $I_x \rightarrow P_{LED} = 20 \times (6 \times 25) / (0.85 \times 0.5 \times 0.75) = 20 \times 150 / 0.32 \approx 94W \rightarrow$
Choose a 100W LED module (Luminous flux 15,000 lm) 2. Solar Street Light Photovoltaic System Capacity Calculation Steps: 3.

What is a utdoor lighting unit?

utdoor lighting unit used for illuminating a street or an open area. It consists of photovoltaic (PV) module(s), compact fluorescent lamp (CFL), lead acid battery, control electronics, inter-connecting w res/cables, module mounting Pole including hardware and battery b.

How many volts should a PV module have under STC?

oltage of the PV modules under STC should be at least 21.0 Volts.e. The terminal box on the module shou d ave a provision for opening for replacing the cable, if required.f. Each PV module must use a RF ide tification tag (RFID), which must cont



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Annexure III Technical Specifications of Solar Street ...

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