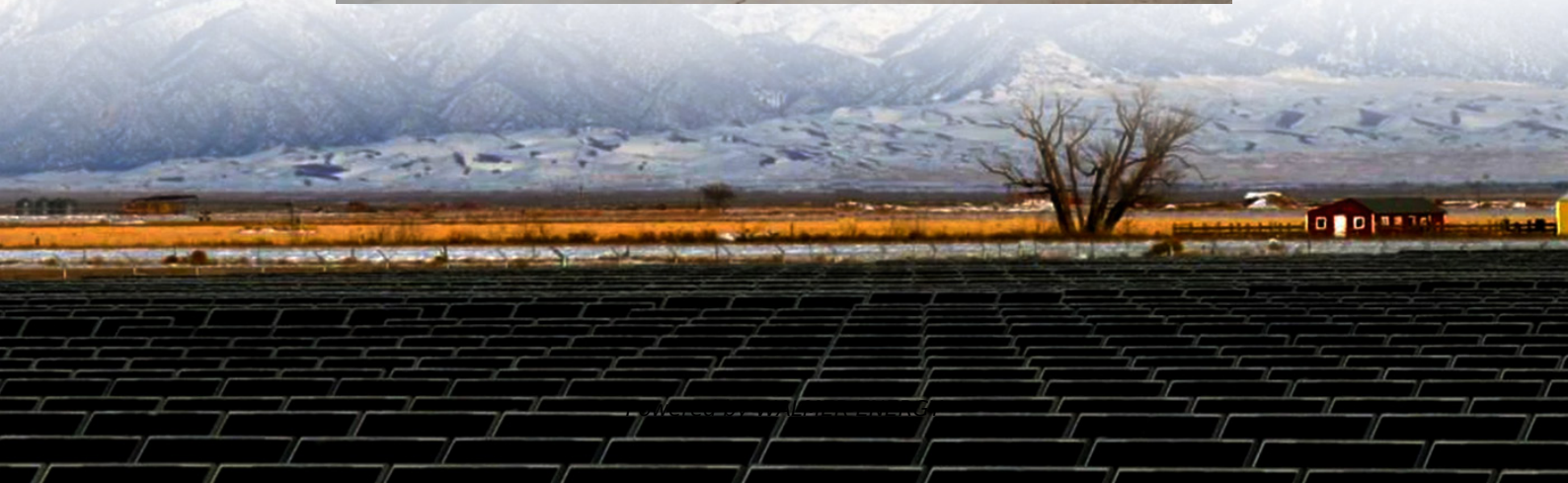


# Specifications of 10MW Solar Containerized Lighting Units for Urban Lighting





## Overview

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What is a solar street lighting system?

A solar street 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 Luminaire, inter connecting cables and module mounting pole including hardware and battery box. The luminaire is based on White Light Emitting Diode.

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

What is a outdoor lighting unit?

An outdoor 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 wires/cables, module mounting Pole including hardware and battery box.

How many volts should a PV module have under STC?

The voltage of the PV modules under STC should be at least 21.0 Volts. e. The terminal box on the module should have a provision for opening for replacing the cable, if required. f. Each PV module must use a Radio Frequency Identification tag (RFID), which must contain



## Specifications of 10MW Solar Containerized Lighting Units for Urban

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Annexure III Technical Specifications of Solar Street ...

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TECHNICAL SPECIFICATION OF SOLAR STREET LIGHTING ...

Dec 27, 2013 · A stand alone solar photovoltaic (SPV) street lighting system (SLS) is an outdoor lighting unit used for illuminating a street or an open area. It consists of photovoltaic (PV) ...

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Complete Solar Street Light Specs

Apr 30, 2025 · Discover a complete sample and specifications of solar street lights, designed for professionals in the solar lighting industry. Learn about components, performance, and ...

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Development of a comprehensive model for the design of ...

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TECHNICAL SPECIFICATIONS OF LED POWER SOLAR ...



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