

SolarInnovate Energy Solutions

20kW Solar Power System



Overview

As per MNRE, the average cost of 2 kW solar on grid system is Rs 60,000/kW, which adds up to Rs 1,20,000, And cost of 2 kW solar off grid system is Rs 62,000/kW to Rs 68,000/kW. 2 kW solar system needs 6 solar panels each of 330 watt and a roof top area of 200 sqft. What is a 2KW solar panel system?

A 2kW solar panel system, also known as a 2kW solar kit, is designed to generate electricity by harnessing sunlight through photovoltaic (PV) panels. These panels convert sunlight into direct current (DC) electricity, which an inverter converts into usable alternating current (AC) electricity.

How does a 2KW Solar System work?

At the core of your 2kW solar system are the solar panels. These panels, often called modules, capture sunlight and convert it into electricity. Typically, a 2kW system consists of several 250-watt panels that collectively produce 2 kilowatts of power per hour under optimal conditions.

How much electricity does a 2KW Solar System produce?

(Load Per Day) On average, a 2kW solar system can produce approximately 10 kWh of electricity per day. This estimate is based on the assumption that the panels receive at least 5 hours of sunlight. Consequently, the system can generate approximately 300 kWh per month and 3650 kWh per year.

How many panels does a 2KW Solar System need?

Considering that each panel has a size of 17 sqft, and you will need 7 panels for a 2kW system, the total footprint will be 113 sqft. How Many kWh Does a 2kW Solar System Produce?

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How to install 2kW solar panels?

The installation of your 2kW solar panels involves mounting them on your roof.

A sturdy and secure rack system is used to affix the panels in an optimal orientation for sunlight exposure. Proper installation ensures the longevity and efficiency of your solar array. The magic begins when sunlight hits the solar panels.

Do 2kW solar panels need a microinverter?

Microinverters play a crucial role in optimizing the efficiency of your 2kW solar panel system. They convert the DC electricity generated by each panel into AC electricity, reducing energy losses and ensuring you get the most out of your solar array. While not a standard component, some 2kW solar systems include batteries.

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