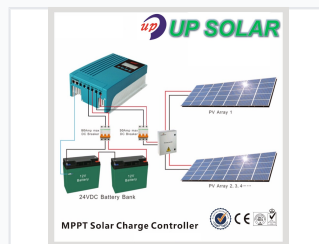
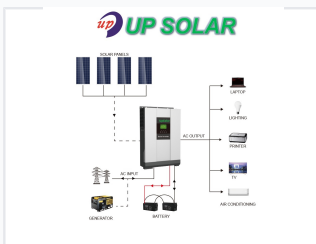


# 1kW Hybrid Off-Grid Solar Power System

This 1kW hybrid off-grid solar power system provides a comprehensive solution for off-grid power generation. The system integrates solar panels, batteries, and a hybrid inverter to ensure a reliable and sustainable power supply.



## ADDITIONAL IMAGES



## System Overview

### Comprehensive Off-Grid Power Solution

The 1kW Hybrid Off-Grid Solar Power System is a versatile energy solution designed to provide reliable electricity for off-grid applications. It integrates solar photovoltaic panels, battery storage, and hybrid inverter technology to manage energy flow efficiently. With the ability to incorporate backup power from generators or the utility grid, this system ensures a continuous power supply for essential home appliances.

## Technical Specifications

### System Capacity

**1 kW**

Rated Power

### Circuit Protection

- 50Amp DC Breaker
- 30Amp DC Breaker

### Battery Bank Configuration

24VDC (typically two 12V batteries in series)

### Charge Controller Type

MPPT (Maximum Power Point Tracking)

## System Compatibility

### Compatible Energy Sources

Solar PV • Utility Grid • Generator

### System Components

Component	Function
Solar Panels	Convert sunlight to DC electricity
Hybrid Inverter	Converts DC to AC and manages energy flow
Battery Pack	Stores excess energy for later use
Generator/Grid Input	Provides backup power source

### Supported Appliances

Laptops, Lighting, Printers, TVs, Air Conditioners