

Off-Grid DC Power System with Solar Panel Integration

This DC system ranges from 6W to 30W and is designed for off-grid power solutions. It integrates solar panels, a charge controller, and a DC power distribution unit, supporting LED lighting and small DC appliances.



Overview

Off-Grid Solar Power Solution

The RGS1209 is a compact, off-grid DC power system designed to provide reliable energy in remote locations. It features integrated solar panels for energy harvesting, a 9AH battery for storage, and a charge controller for efficient power management. This system is ideal for rural electrification, supporting multiple LED lights and small DC appliances through dedicated output ports.

Technical Specifications

Solar Panel Power	12 W
Battery Capacity	9 AH
Battery Voltage	12 V
Solar Controller	3A/12V
Rated Current	2 A

Connectivity & Output

DC Output Ports	12V/2A (x4)
USB Output	5V/500mA (x1)

Performance Metrics

Power Supply Duration

Configuration	Duration
2 x 3W LED	16 hrs
2 x 5W LED	9 hrs
2 x 3W LED & 2 x 5W LED	6 hrs

Full Charging Time	11 hrs
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Included Accessories

Included Components

- 4m cables with switches (x4)
- 3W LED bulbs (x2)
- 5W LED bulbs (x2)
- Multifunction USB cable (x1)