

Off-Grid Solar DC Lighting System

This off-grid PV system converts solar energy to electrical energy. It can be configured with storage devices for nighttime use and provides a mobile or standby power supply for families, clinics, and communication base stations.



Product Overview

Energy Independence for Off-Grid Living

This off-grid solar DC lighting system provides a reliable and sustainable power solution for areas without grid access. Designed for portability and ease of use, it captures solar energy to power essential lighting and small electronic devices. The integrated system includes both 12V and 5V output ports, making it highly versatile for home illumination and mobile device charging.

Technical Specifications

PV Module Power

5 W PV Power	17 V Voltage
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Battery Capacity	4.5 AH
Battery Voltage	12 V

Connectivity & Output

Output Ports

- 3 x DC 12V ports
- 2 x DC 5V ports

Operational Capability

Recommended Daily Load

Device	Quantity	Daily Duration
LED Light (3W)	2	3 hours
Cell Phone (2W)	1	1 hour