

ROCKSOLAR

24V 3kW DIY Off-Grid Solar Panel Kit

(1320W Solar Panels – SRNE Inverter System)

User & Installation Manual

Professional Edition

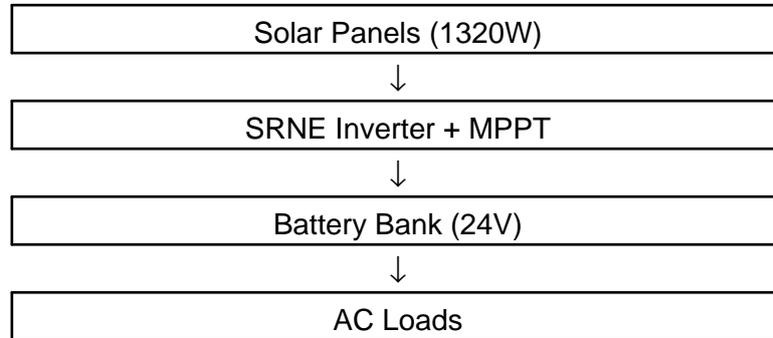
1. Safety Information

Solar photovoltaic systems generate electrical energy whenever exposed to sunlight. Installation should be performed by qualified personnel.

Always disconnect batteries and solar panels before servicing the system.

2. System Overview

This off grid system uses solar panels to charge batteries through an integrated MPPT inverter. The inverter converts battery power to AC electricity for appliances.



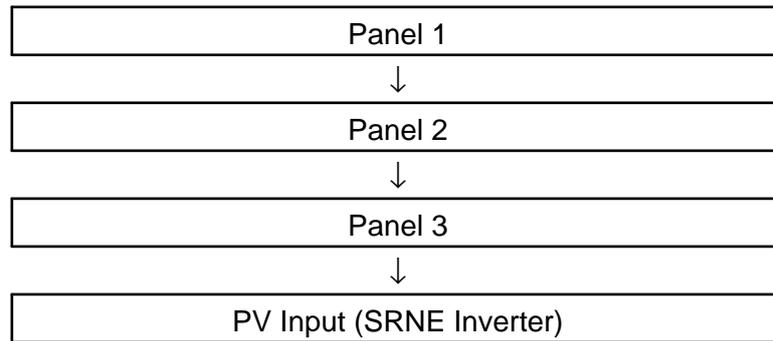
3. System Components

Component	Description
Solar Panels	3 × 440W monocrystalline panels
Inverter	SRNE 24V 3000W Off Grid Inverter
	Integrated MPPT controller
Battery Bank (May not included)	24V battery system

4. Technical Specifications

Specification	Value
System Voltage	24V
Inverter Output	3000W
Solar Input	1320W
Solar Panels	3 × 440W
Controller	MPPT (integrated)

5. Solar Panel Wiring Diagram

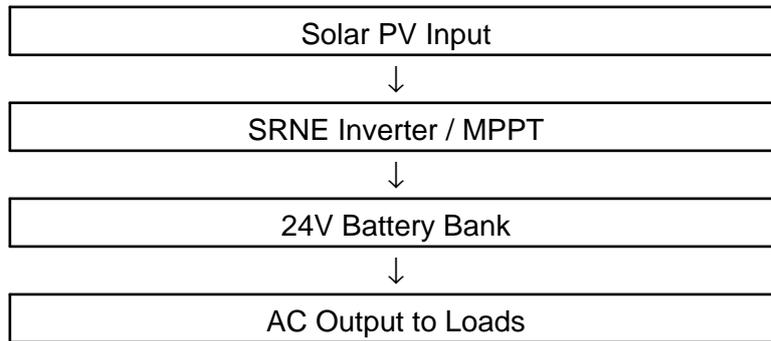


Panels are typically connected in series to reach the appropriate MPPT voltage range.

6. Battery Wiring

Configuration	Example
24V Battery Bank	2 × 12V batteries in series

7. SRNE Inverter Connection Diagram



8. Installation Overview

1. Mount solar panels 2. Install batteries 3. Mount inverter 4. Connect solar panels 5. Connect batteries 6. Connect AC loads 7. Test system

9. Solar Panel Installation

Install panels facing south (Northern Hemisphere) at 25–40° tilt angle. Avoid shading.

10. Battery Installation

Install batteries in a ventilated location. Use properly sized cables and install a fuse or breaker.

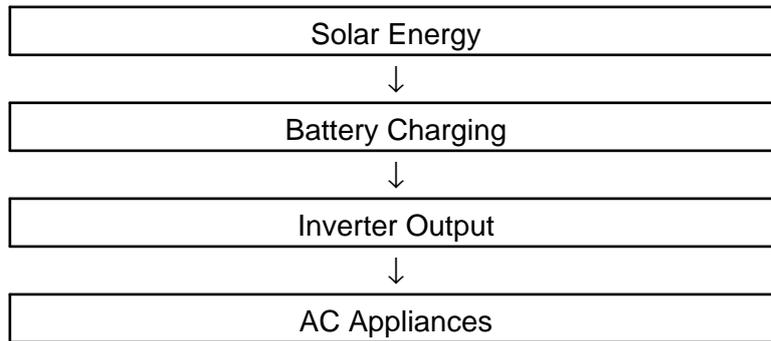
11. Inverter Installation

Mount inverter near battery bank with adequate ventilation.

12. System Startup

Connect batteries first, then solar panels, then turn on inverter.

13. System Operation



14. Maintenance

Clean panels and inspect cables every 6–12 months.

15. Troubleshooting

Problem	Solution
No AC output	Turn inverter on
Battery not charging	Check PV wiring
Low power	Clean panels

16. Warranty

Solar panels include a 25 year performance warranty. Inverter include a 5 year manufacturer warranty.

17. Technical Support

ROCKSOLAR <https://rocksolar.io> support@rocksolar.io

18. Compliance

Installations must follow local electrical codes including CSA, NEC, or CEC where applicable.

19. Installer Notes

Record system configuration, battery type, and installation date for future maintenance.

20. Disclaimer

This manual provides general guidance for off grid solar installations.