

Description

Renogy 200W/400W Solar Blanket uses high-efficiency Mono N-Type solar cells for stable, reliable power generation. Equipped with built-in MC4 connectors and USB outputs (on the 200W model only), Solar Blankets support direct charging of power stations, batteries, and small devices like phones and laptops (200W model only). Its foldable, space-saving design enables easy storage and transport.

Key Features

■ Ultra-Lightweight and Foldable

Multi-fold structure (8-fold for 200W model, 16-fold for 400W model) delivers power in a compact, backpack-sized form for easy storage and transport.

■ Flexible Setup for Mobile Use

Supports ground placement, vehicle placement, or hanging for the best solar exposure.

■ N-Type Cells Up to 25% Conversion Efficiency

Advanced N-Type solar cells with a 16BB structure deliver up to 25% conversion efficiency, maximizing energy output from a limited surface area.

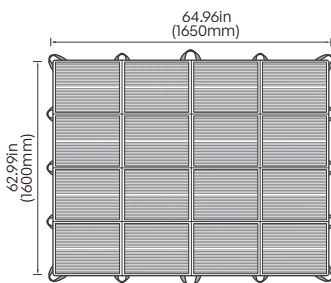
■ Versatile Off-Grid Power Compatibility

Equipped with standard solar connectors and output interfaces to charge portable power stations and 12V/24V battery systems.

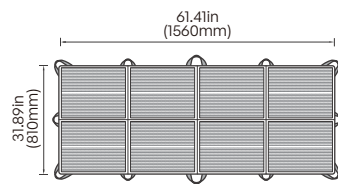
■ Durable Construction for Outdoor Operation

IP65-rated and reinforced structure ensures reliable performance. An integrated carrying handle and complementary straps feature for easy handling.

Module Diagram



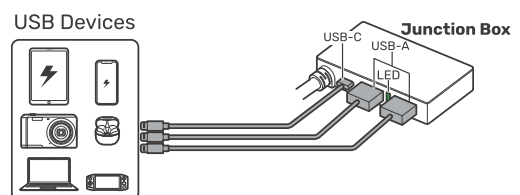
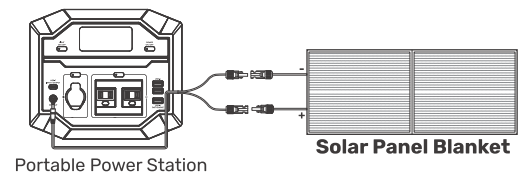
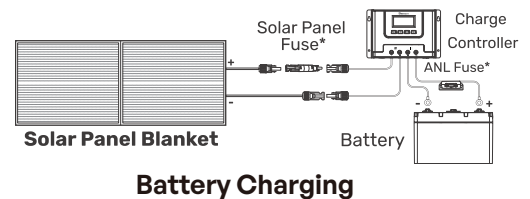
RSP400SB



RPP200SB-SE



Wiring Instructions



Technical Specifications

Mechanical Data

Model	RPP200SB-SE	RSP400SB
Maximum Power at STC	200W	400W
Optimum Operating Voltage (Vmp)	16.8V	33.6V
Optimum Operating Current (Imp)	11.9A	11.9A
Open-Circuit Voltage (Voc)	19.6V	39.2V
Short-Circuit Current (Isc)	13.1A	13.1A
Module Efficiency	15.8%	15.2%
Maximum System Voltage	600VDC	600VDC

Electrical Data

Solar Cell Type	Mono N-Type	Mono N-Type
Number of Cells	112 (2 x 7 x 8)	224 (2 x 7 x 16)
Size (Unfolded)	61.41 x 31.89 x 1.49in / 1,560 x 810 x 38mm	64.96 x 62.99 x 1.50in / 1,650 x 1,600 x 38mm
Size (Folded)	16.14 x 15.35 x 3.07in / 410 x 390 x 78mm	16.54 x 15.83 x 4.13in / 420 x 402 x 105mm
Weight	8.82 lbs / 4.0kg	16.09 lbs / 7.3kg
Front Film	TPO	TPO
Connectors	Solar Connectors	Solar Connectors

Thermal Characteristics

Operating Temp. Range	14°F to 149°F / -10°C to 65°C	14°F to 149°F / -10°C to 65°C
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MC4 Connectors

Maximum Voltage	1,000VDC	1,000VDC
Rated Current	30A	30A
Temperature Range	-40°F to 194°F / -40°C to 90°C	-40°F to 194°F / -40°C to 90°C
IP Rating	IP65	IP65

Junction

Output Cables	14 AWG 78.74±1.97in / 2,000±50mm	12 AWG 118.11±1.97in / 3,000±50mm
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USB Ports

USB Output	USB C: PD3.0, 5V/3A, 9V/3A, 12V/3A, 15V/3A, 45W Max USB A (Orange): 5V/3A, 9V/2A, 12V/1.5A, 18W Max USB A (Black): 5V/3A, 15W Max	/
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Warranty

Material and Workmanship Warranty	2-Year	2-Year
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Certification

Certification	FCC, IC, PSE, CE, ROHS, TSCA, CA65	FCC, IC, PSE, CE, ROHS, TSCA, CA65
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Package Contents

Package Contents	1x Renogy 200W N-Type Portable Solar Panel Blanket, 1x Warranty Card, 1x User Manual, 2x Shoulder Straps	1x Renogy 400W N-Type Portable Solar Panel Blanket, 1x Warranty Card, 1x User Manual, 2x Shoulder Straps
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