

Description

Renogy 200W Slim N-Type Solar Panel features a narrow, elongated form factor designed for vehicle rooftops with limited width. A revised cell layout delivers the same 200W class performance in a longer, slimmer footprint than a standard 200W panel, making placement and system planning easier on space-constrained roofs.

Built with N-Type solar cells, the panel delivers consistent output in high temperatures and low-light conditions, with a reinforced aluminum frame supporting long-term outdoor use and straightforward installation.

Key Features

■ N-Type Cells Up to 25% Conversion Rate

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

■ Slim Design for Vehicle Rooftop

Narrow and elongated panel dimensions support installation on narrow vehicle roofs.

■ Improved Performance in Heat and Low Light

A lower temperature coefficient reduces heat-related power loss and hot-spot risk while improving energy generation in low-light conditions.

■ Durable Construction for Outdoor Use

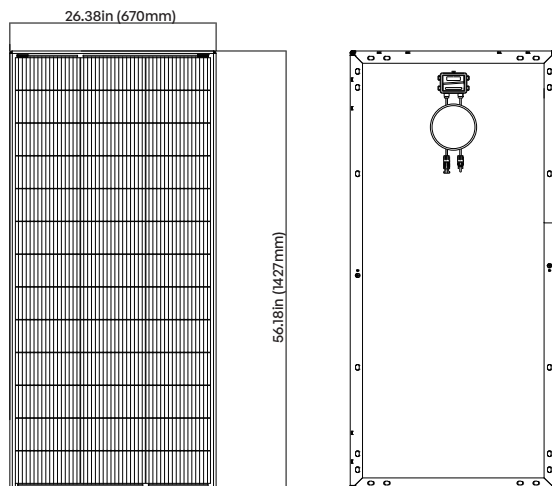
IP67 protection with low-iron tempered glass and corrosion-resistant aluminum frames, designed for stable performance in harsh outdoor conditions.

■ Long-Term Reliability

Low degradation rates of $\leq 1\%$ in the first year and $\leq 0.4\%$ annually, with a 25-year guarantee of 80% output for sustained power delivery.



Module Diagram



Technical Specifications

Electrical Data

Model	RSP200DC-SS39
Maximum Power at STC*	200W
Optimum Operating Voltage (Vmp)	23.27V
Optimum Operating Current (Imp)	8.59A
Open-Circuit Voltage (Voc)	27.05V
Short-Circuit Current (Isc)	9.19A
Module Efficiency	20.9%
Maximum System Voltage	600VDC
Maximum Series Fuse Rating	20A

Mechanical Data

Solar Cell Type	Mono N-Type
Number of Cells	39 (13 x 3)
Dimensions	56.18 x 26.38 x 1.18in / 1,427 x 670 x 30mm
Weight	22.49 lbs / 10.2kg
Front Film	Tempered Glass 0.13in / 3.2mm
Connectors	Solar Connectors
Frame	Anodized Aluminum Alloy
Fire Performance	Type I

Thermal Characteristics

Operating Temp. Range	-40°F to 185°F / -40°C to 85°C
Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.32%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.046%/°C

MC4 Connectors

Maximum Voltage	1,000VDC
Rated Current	22A
Temperature Range	-40°F to 194°F / -40°C to 90°C
IP Rating	IP67

Junction

IP Rating	IP65
Output Cables	14 AWG 31.5in / 800mm

Warranty

Power Output Warranty	25-Year
Material and Workmanship Warranty	10-Year
Certification	CE

All specifications and data described in this data sheet are tested under Standard Test Conditions (STC - Irradiance: 1,000W/m², Temperature: 25°C, Air Mass: 1.5) and may deviate marginally from actual values. Renogy and any of its affiliates have reserved the right to make any modifications to the information on this data sheet without notice. It is our goal to supply our customers with the most recent information regarding our products. These datasheets can be found in the downloads section of our website, www.renogy.com.