

MEGA 100 FLEX

100W 12V FLEXIBLE SOLAR PANEL

22.8%

Maximum Cell Efficiency

100W

Maximum Power Output

0~+5W

Positive Power Tolerance

**MEGA 100 FLEX (MODEL: RS-F100B)**

Maximum Efficiency

Multi-busbar cell technology improves light trapping, reduces series resistance, and enhances current collection.

Superior low-light performance and a low temperature coefficient maintain strong output in varied weather conditions.

Proven Reliability

Delivers consistent energy production even on cloudy days or during mornings and evenings.

Innovative non-destructive cutting technology minimizes micro-cracks for greater durability.

PID resistance is ensured through advanced cell processing and premium module material control.

All-weather protection with IP68 waterproof rating ensures long-term outdoor performance.

Mechanical strength certified up to 5400 Pa positive load and 2400 Pa negative load.

Easy Installation

Plug-and-play solar connectors support both series and parallel configurations.

Extremely lightweight design allows for easy handling and transport.

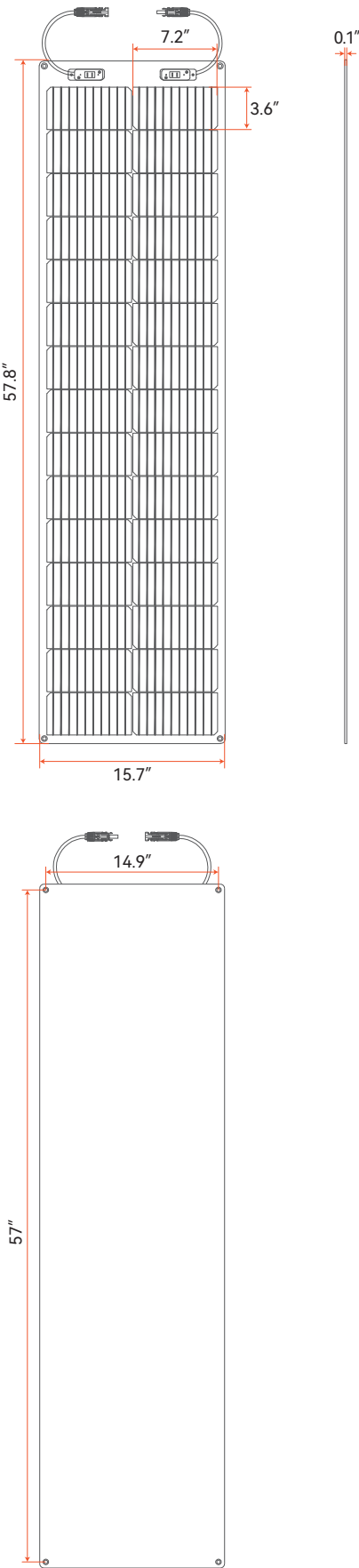
Pre-drilled holes support flexible mounting options.

360° bendable solar panel conforms to curved surfaces for versatile installation.

Ultra-thin 0.1" profile for sleek appearance and minimal weight.

Ideal for high-end off-grid systems and mobile setups including RVs, vans, trailers, overlanders, curved roofs, and boats.

DIMENSIONS



* Actual dimensions may vary by ±0.1 in.

ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)	100W
Power Output Tolerance-PMAX (W)	0~+5W
Maximum Power Voltage-VMPP (V)	17.1V
Maximum Power Current-IMPP (A)	5.85A
Open Circuit Voltage-VOC (V)	20.4V
Short Circuit Current-ISC (A)	6.13A
Maximum System Voltage	1500V
Temperature Range	-40~+185°F
Maximum Series Fuse Rating	15A
Module Efficiency η_m (%)	17%

STC: Irradiance 1000 W/m², Cell Temperature 25 °C, Air Mass AM = 1.5

MECHANICAL DATA

Solar Cells Type	Monocrystalline 7.2 × 3.6 in (182 × 91 mm)
Module Dimensions	57.8 × 15.7 × 0.1 in (1468 × 400 × 2.6 mm)
Cell Orientation	30 cells (2 × 15)
Weight	4.8 lb (2.18 kg)
Glass	4 mm ² (IEC), 12 AWG (UL)
Backsheet	Black
Connector	Solar Connectors
Junction Box	IP 68 rated
Cables	35.4 in (900 mm) Length

TEMPERATURE RATINGS

Temperature Coefficient of PMAX	-0.35%/°C
Temperature Coefficient of VOC	-0.28%/°C
Temperature Coefficient of ISC	0.045%/°C

CURVE CHARACTERISTICS

