RICH SOLAR | MEGA™ Series Solar Panels

MEGA 100 BRIEFCASE
100W PORTABLE SOLAR PANEL

25.3%
Maximum Cell Efficiency

100W
Maximum Power Output

0~+5W
Positive Power Tolerance



MEGA 100 BRIEFCASE (MODEL: RS-X100B)

Maximum Efficiency

N-Type TOPCon multi-busbar cell technology improves light trapping, reduces series resistance, and enhances current collection.

High-transmission, AR-coated tempered glass maximizes sunlight capture while ensuring long-term durability.

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.

Built to withstand harsh environments including salt, ammonia, sand, high temperatures, and high humidity.

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

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

Ultimate Portability

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

Lightweight, corrosion-resistant anodized aluminum frame allows for easy handling and extended lifespan.

Ideal for solar generators, portable power stations, emergency backup power, or remote power applications.

Corner protection ensures durability during transport and use.

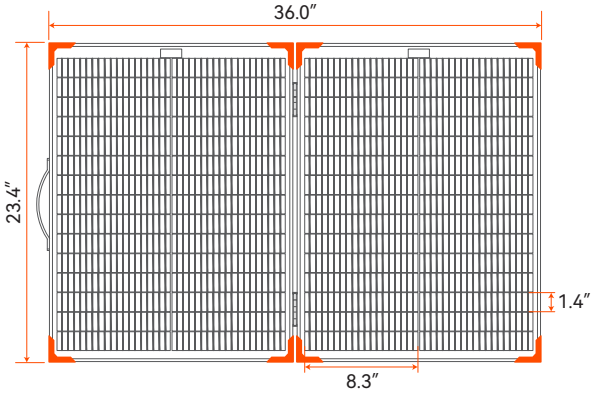
Canvas carrying bag provides convenient storage and easy transport.

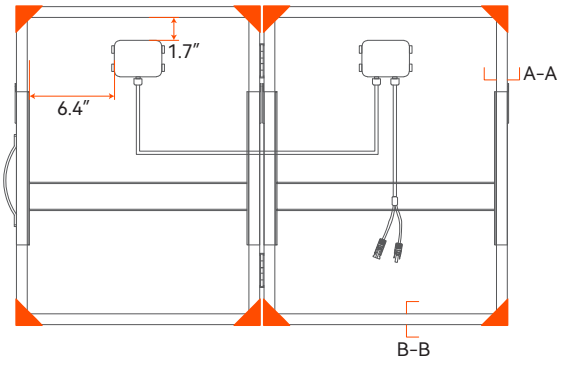
Adjustable kickstand allows optimal angle positioning for maximum sunlight capture.

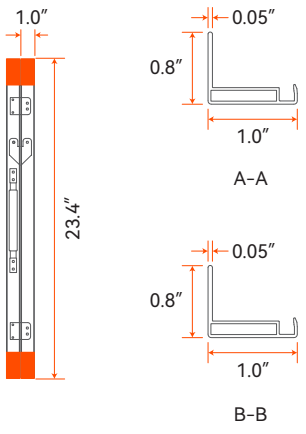
Durable latches provide secure closure and reliable portability.

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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)	18.0V
Maximum Power Current-IMPP (A)	5.59A
Open Circuit Voltage-VOC (V)	21.0V
Short Circuit Current-ISC (A)	5.76A
Maximum System Voltage	1000V
Temperature Range	-40~+185°F
Maximum Series Fuse Rating	15A
Module Efficiency η m (%)	17.9%

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

MECHANICAL DATA

Solar Cells Type	N-Type TopCon 8.3 × 1.4 in (210 × 35 mm)
Module Dimensions	36 × 23.4 × 1.0 in (915 × 595 × 25 mm)
Cell Orientation	60 cells (2 × 15 × 2)
Weight	14.3 lb (6.5 kg)
Glass	4 mm² (IEC), 12 AWG (UL)
Backsheet	Black
Connector	Solar Connectors
Junction Box	IP 67 rated
Cables	59.1 in (1500 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

