

MEGA SERIES 100W SLIM SOLAR PANEL

MODEL: RS-M100SLX

22.6%

Maximum Efficiency

100W

Maximum Power Output

0~+5W

Positive Power Tolerance

IP67

Waterproof Rate



FEATURES

Advanced Design and Technology

10 busbar solar cell enhances light absorption, achieving 22.6% efficiency.
30 cell monocrystalline module delivers a 100W maximum power output.
High-transmission, AR-coated tempered glass maximizes sunlight capture and ensures durability.
Plug-and-play junction box allows for quick and easy installation.
Industry-standard quick-connect cables support series and parallel connections.

Easy Installation and Versatility

Lightweight anodized aluminum frame is durable, corrosion-resistant, and easy to handle.
Pre-drilled holes compatible with ground mounts, Z brackets, pole mounts, and tilt mounts.
Works seamlessly with both on-grid and off-grid inverters.
Ideal for high-end off-grid systems and mobile applications.

Superior Performance and Reliability

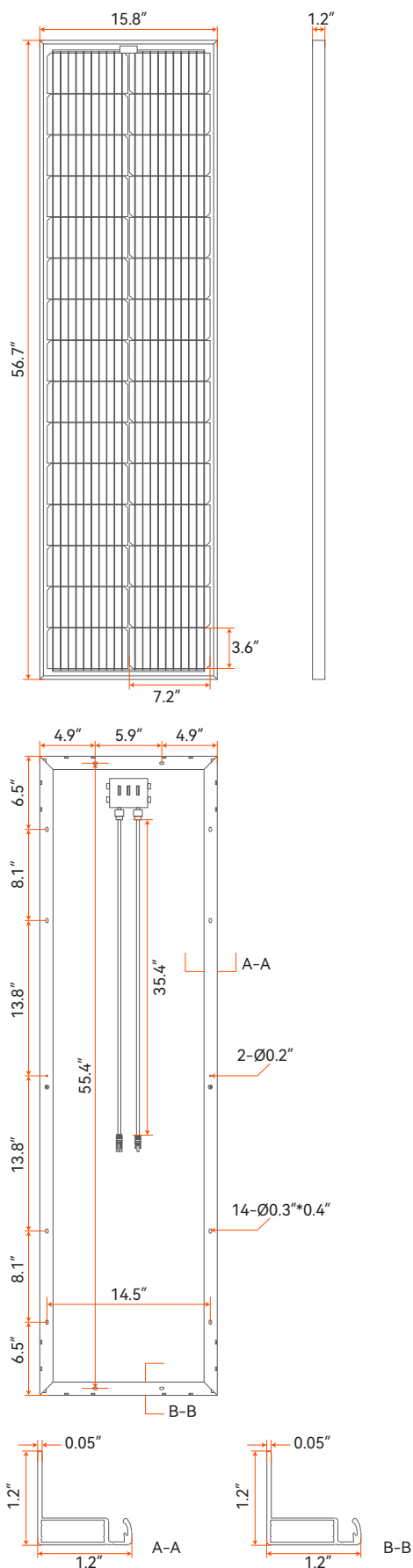
Excellent low-light performance even on cloudy days or during mornings and evenings.
Over 30 in-house tests (UV, TC, HF, etc.) guarantee durability and performance.
PID-resistant design and 100% EL double inspection prevent micro-cracks and ensure module integrity.
Certified to withstand 2400 Pa wind load, 5400 Pa snow load, and 35 mm hail stones at 97 km/h.

Long-Term Warranty and Support

25-year limited product warranty ensures reliability.
25-year performance warranty guarantees minimal degradation.
Refer to the product warranty documentation for detailed terms.



DIMENSIONS



ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)	100 W
Power Output Tolerance-PMAX (W)	0~+5 W
Maximum Power Voltage-VMPP (V)	17.3 V
Maximum Power Current-IMPP (A)	5.78 A
Open Circuit Voltage-VOC (V)	21.8 V
Short Circuit Current-ISC (A)	6.06 A
Maximum System Voltage	1000 VDC
Maximum Series Fuse Rating	15 A
Module Efficiency η_m (%)	18.2 %
STC: Irradiance 1000 W/m ² , Cell Temperature 25 °C, Air Mass AM = 1.5	

MECHANICAL DATA

Solar Cells	Monocrystalline 7.2 × 3.6 in (182 × 91 mm)
Module Dimensions	56.7 × 15.8 × 1.2 in (1440 × 400 × 30 mm)
Cell Orientation	30 cells (2 × 15)
Weight	13.1 lb (5.9 kg)
Glass	3.2 mm (0.13 in), High Transmission, AR Coated Tempered Glass
Backsheet	White
Connector	Solar Connectors
Frame	Anodized Aluminum Alloy
Junction Box	IP 67 rated
Cables	Photovoltaic Technology Cable 4.0 mm ² (#12 gauge), 35.4 in (900 mm) Length

TEMPERATURE RATINGS

Nominal Module Operating Temperature (NMOT)	45°C ± 2°C
Temperature Coefficient of PMAX	-0.39%/°C
Temperature Coefficient of VOC	-0.29%/°C
Temperature Coefficient of ISC	0.05%/°C

CURVE CHARACTERISTICS

