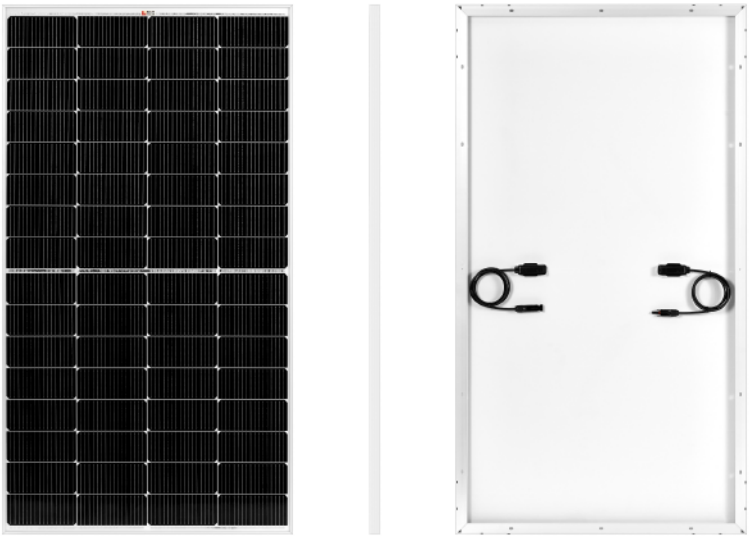
RICH SOLAR | MEGA™ Series Solar Panels

MEGA 220
220W 12V SOLAR PANEL

22.8%
Maximum Cell Efficiency

220W
Maximum Power Output

±5%
Positive Power Tolerance



MEGA 220 (MODEL: RS-M220)

Advanced Design and Technology

16 busbar solar cell enhances light absorption, achieving 22.8% efficiency.

64 cell monocrystalline module delivers a 220W 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.

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.

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.

Long-Term Warranty and Support

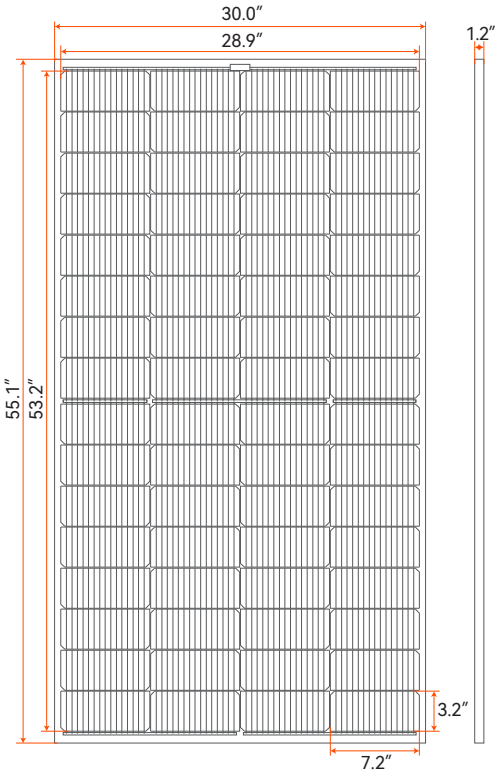
25-year limited product warranty ensures reliability.

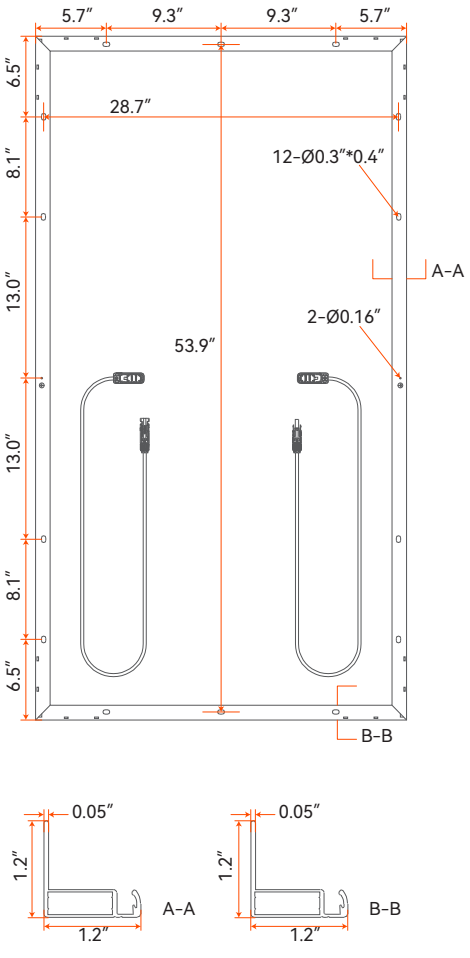
25-year performance warranty guarantees minimal degradation.

Refer to the product warranty documentation for detailed terms.

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DIMENSIONS





ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)	220 W
Power Output Tolerance	±5%
Maximum Power Voltage-VMPP (V)	18.3 V
Maximum Power Current-IMPP (A)	12.0 A
Open Circuit Voltage-VOC (V)	22.1 V
Short Circuit Current-ISC (A)	12.5 A
Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	20 A
Module Efficiency η m (%)	20.7 %
STC: Irradiance 1000 W/m², Cell Temperature 25 °C, Air Mass AM = 1.5	

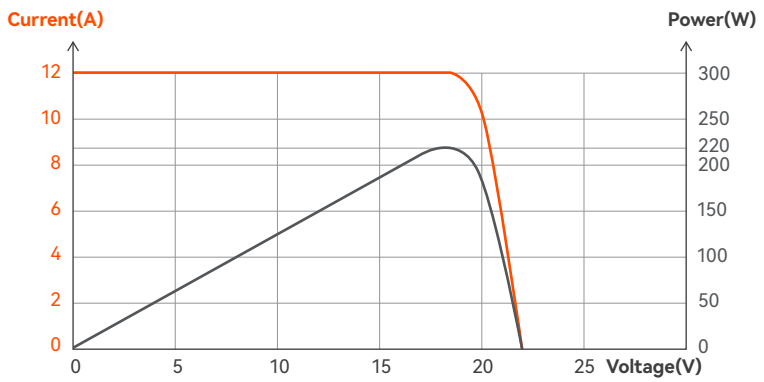
MECHANICAL DATA

Solar Cells	Monocrystalline 7.2 × 3.2 in (182 × 82 mm)
Module Dimensions	55.1 × 30.0 × 1.2 in (1400 × 760 × 30 mm)
Cell Orientation	64 cells (4 × 8 × 2)
Weight	23.7 lb (10.7 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 mm² (#12 gauge), 47.2 in (1200 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



SPECIFICATIONS INCLUDED IN THIS DATASHEET ARE SUBJECT TO CHANGE WITHOUT NOTICE.