MEGA SERIES 250W PRO ONYX SOLAR PANEL

MODEL: RS-M250PB

25.1% Maximum Efficiency

250W

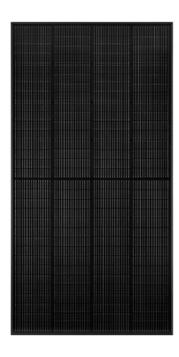
Maximum Power Output

0~+5W

Positive Power Tolerance

IP68

Waterproof Rate





FEATURES

Advanced Design and Technology

16 busbar solar cell enhances light absorption, achieving 25.1% efficiency.

128 cell monocrystalline module delivers a 250W 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

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.



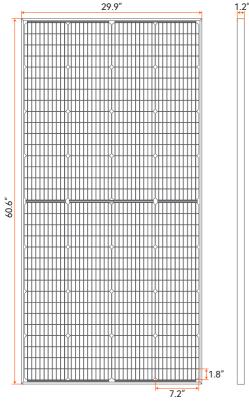


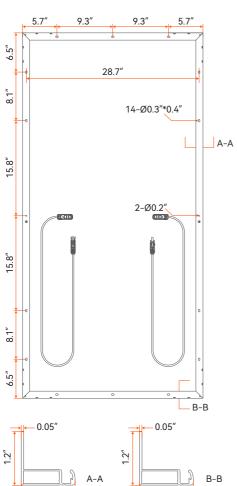






DIMENSIONS





ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)	250 W	
Power Output Tolerance-PMAX (W)	0~+5 W	
Maximum Power Voltage-VMPP (V)	36.9 V	
Maximum Power Current-IMPP (A)	6.78 A	
Open Circuit Voltage-VOC (V)	44.7 V	
Short Circuit Current-ISC (A)	7.24 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 \times 1.8 in (182 \times 45.5 mm)
Module Dimens	ions 60.6 × 29.9 × 1.2 in (1540 × 760 × 30 mm)
Cell Orientation 128 cells (4 × 1	
Weight	26.9 lb (12.2 kg)
Glass	3.2 mm (0.13 in), High Transmission, AR Coated Tempered Glass
Backsheet	Black
Connector	Solar Connectors
Frame	Anodized Aluminum Alloy
Junction Box	IP 68 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

