

MEGA 150

150W 12V SOLAR PANEL

25.3%

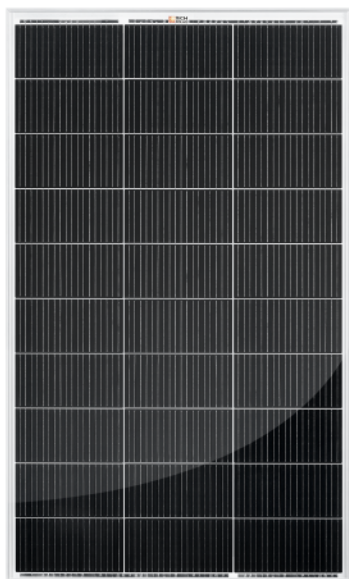
Maximum Cell Efficiency

150W

Maximum Power Output

0~+5W

Positive Power Tolerance

**MEGA 150 (MODEL: RS-M150)**

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.

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

Easy Installation

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

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

Pre-drilled holes support flexible mounting options such as ground mounts, Z-brackets, poles, and tilt systems.

Ideal for high-end off-grid systems and mobile setups including RVs, cabins, and boats.

Designed for compatibility with existing mainstream optimizers, inverters, and mounting systems.

Proven Reliability

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

Innovative non-destructive cutting technology minimizes micro-cracks for enhanced 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.

Exceptional Value

Delivers higher performance, greater savings, and long-term satisfaction.

Protected by a 25-year limited product warranty.

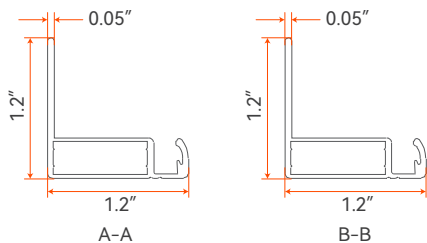
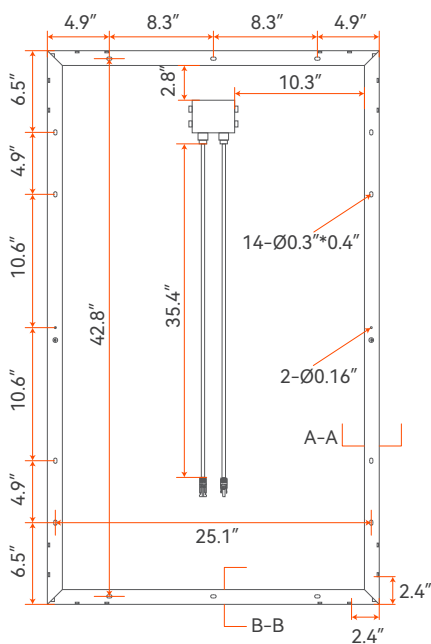
Backed by a 25-year performance warranty guaranteeing minimal power degradation over time.



Technical drawing of a rectangular wire mesh screen. The main drawing shows a front view with the following dimensions:

- Width: 26.4"
- Height: 44.0"
- Depth: 8.3"
- Thickness: 4.1"

A detail view on the right shows a cross-section of the mesh, with a width of 1.2".



Peak Power Watts-PMAX (Wp)	150 W
Power Output Tolerance-PMAX (W)	0~+5 W
Maximum Power Voltage-VMPP (V)	17.5 V
Maximum Power Current-IMPP (A)	8.57 A
Open Circuit Voltage-VOC (V)	21.8 V
Short Circuit Current-ISC (A)	8.94 A
Maximum System Voltage	1000 VDC
Temperature Range	-40~+185°F
Maximum Series Fuse Rating	15 A
Module Efficiency η_m (%)	20.0 %

MECHANICAL DATA

Solar Cells Type	N-Type TOPCon 8.3 × 4.1 in (210 × 105 mm)
Module Dimensions	44.0 × 26.4 × 1.2 in (1118 × 670 × 30 mm)
Cell Orientation	30 cells (3 × 10)
Weight	18.1 lb (8.2 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

Nominal Module Operating Temperature (NMOT)	45°C ± 2°C
Temperature Coefficient of P _{MAX}	-0.35%/°C
Temperature Coefficient of V _{OC}	-0.28%/°C
Temperature Coefficient of I _{SC}	0.045%/°C

The graph shows the relationship between voltage, current, and power for a transformer with a 150V/10A rating. The x-axis represents Voltage (V) from 0 to 225. The left y-axis represents Current (A) from 0 to 10, and the right y-axis represents Power (W) from 0 to 1500. The current (black line) is constant at 10A until 150V, then drops linearly to 0A at 225V. The power (red line) is constant at 1500W until 150V, then drops to 0W at 225V.

Voltage (V)	Current (A)	Power (W)
0	0	0
150	10	1500
225	0	0