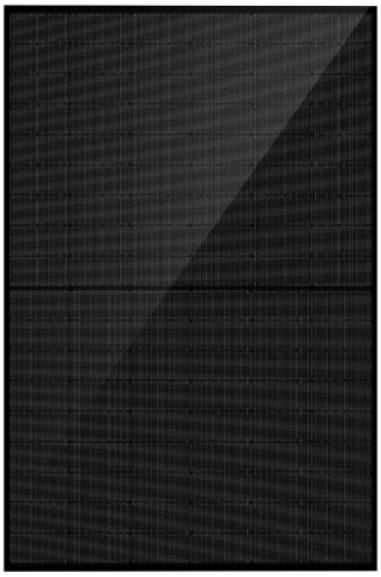
RICH SOLAR | MEGA™ Series Solar Panels

MEGA 400 / MEGA 410
400-410W 24V SOLAR PANEL

23.2%
Maximum Cell Efficiency

410W
Maximum Power Output

0~+5W
Positive Power Tolerance



MEGA 400 / MEGA 410 (MODEL: RS-M400 / RS-M410)

Maximum Efficiency

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.

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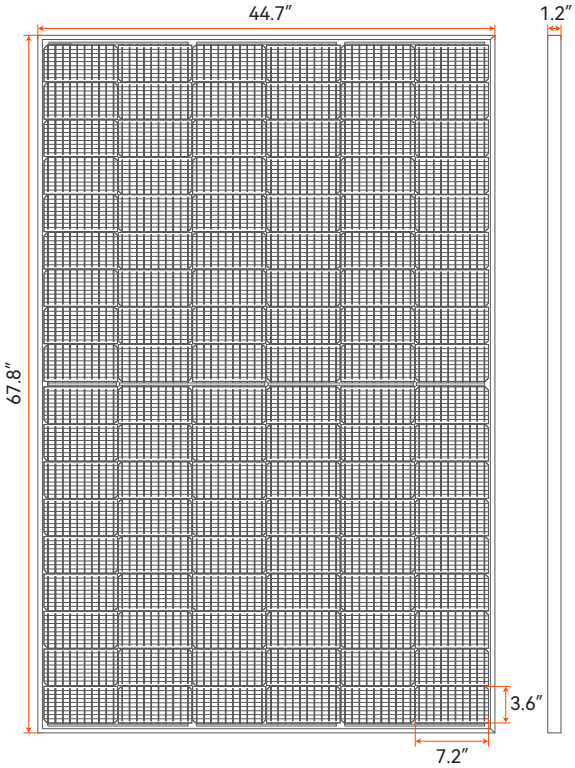
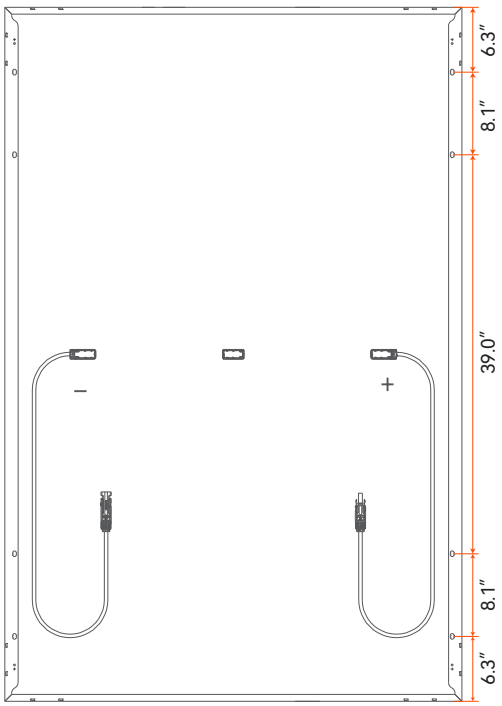
DIMENSIONS





* Actual dimensions may vary by ±0.1 in.

ELECTRICAL DATA (STC)

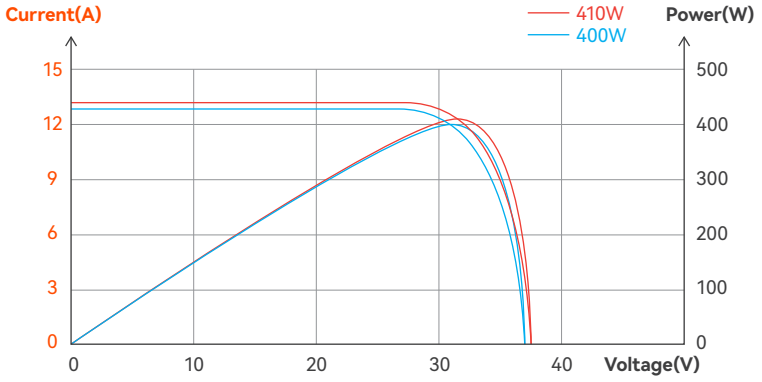
Peak Power Watts-PMAX (Wp)	400 W	410 W
Power Output Tolerance-PMAX (W)	0~+5 W	0~+5 W
Maximum Power Voltage-VMPP (V)	31.0 V	31.3 V
Maximum Power Current-IMPP (A)	12.9 A	13.1 A
Open Circuit Voltage-VOC (V)	37.1 V	37.5 V
Short Circuit Current-ISC (A)	13.7 A	13.8 A
Maximum System Voltage	1500 VDC	1500 VDC
Temperature Range	-40~+185°F	-40~+185°F
Maximum Series Fuse Rating	25 A	25 A
Module Efficiency η m (%)	20.48 %	20.99 %

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

MECHANICAL DATA

Solar Cells Type	Monocrystalline 7.2 × 3.6 in (182 × 91 mm)
Module Dimensions	67.8 × 44.7 × 1.2 in (1722 x 1134 x 30 mm)
Cell Orientation	108 cells (6 × 9 × 2)
Weight	45.2 lb (20.5 kg)
Glass	3.2 mm (0.13 in), High Transmission, AR Coated Tempered Glass
Backsheet	Black
Connector	Solar Connectors
Frame	Anodized Aluminium Alloy
Junction Box	IP 68, 3 diodes
Cables	4.0 mm² (#12 gauge), 47.24 in (1200 mm) Length, With Connectors

TEMPERATURE RATINGS

Nominal Module Operating Temperature (NMOT)	44°C ± 2°C
Temperature Coefficient of PMAX	-0.34%/°C
Temperature Coefficient of VOC	-0.26%/°C
Temperature Coefficient of ISC	0.045%/°C

CURVES OF PV MODULE