

MEGA 410

Monocrystalline Solar Panel

410W

Maximum Power Output

108 CELLS

Monocrystalline Module

0~+5W

Positive Power Tolerance

20.9%

Maximum Efficiency



FEATURES



10 bus bar solar cell configuration



Lightweight anodized aluminum frame



Plug and play junction box



High transmission, AR (anti-reflective) coated tempered glass



Industry standard quick connect cables (Solar Connectors) work in series or in parallel



Excellent low light performance on cloudy days, mornings and evenings



Highly reliable due to stringent quality control (Over 30 in-house tests (UV, TC, HF, and many more), PID resistant, 100% EL double inspection)



Certified to withstand challenging environmental conditions (2400 Pa wind load, 5400 Pa snow load, 35 mm hail stones at 97 km/h)

INSTALLATION

Easy installation and handling for various applications (high-end off-grid and mobile applications).

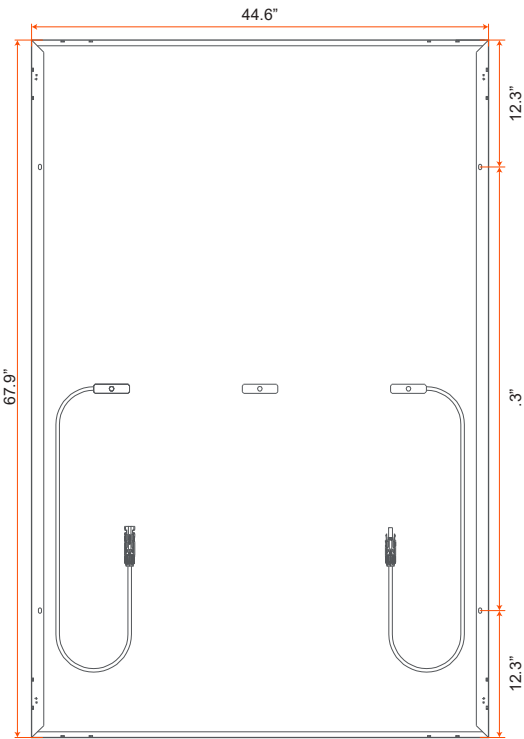
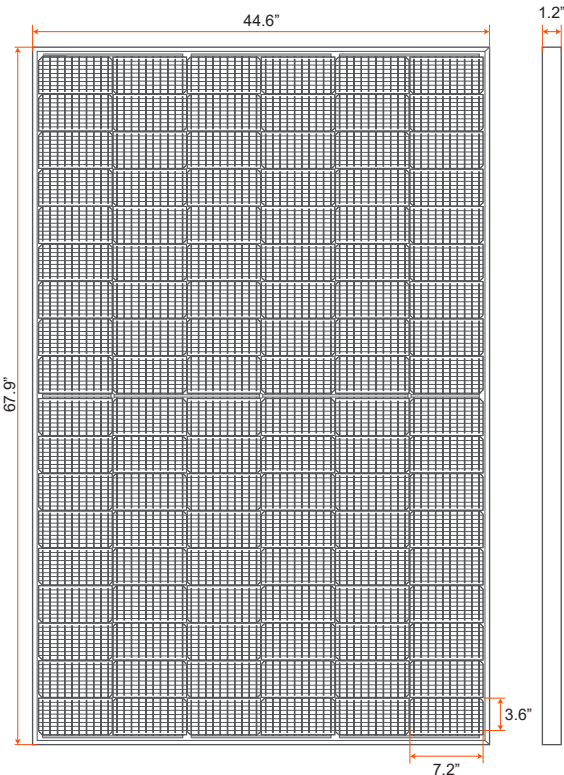
Pre-drilled holes compatible with ground mounts, Z brackets, pole mounts and tilt mounts.

Compatible with on-grid and off-grid inverters.

WARRANTY

25 years warranty limited output power

* (Please refer to product warranty for details)



ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)	410 W
Power Output Tolerance-PMAX (W)	0~+5 W
Maximum Power Voltage-VMPP (V)	31.3 V
Maximum Power Current-IMPP (A)	13.1 A
Open Circuit Voltage-VOC (V)	37.5 V
Short Circuit Current-ISC (A)	13.8 A
Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	20 A
Module Efficiency η_m (%)	20.9 %
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	67.9 × 44.6 × 1.2 in (1724 x 1134 x 30 mm)
Cell Orientation	108 cells (2 × (6 × 9))
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 mm ² (#12 gauge), 13.8 in (350 mm) Length, With Connectors

TEMPERATURE RATINGS

Operating Temperature	-40°C ~ +85°C
Nominal Module Operating Temperature (NMOT)	44°C ± 2°C
Temperature Coefficient of PMAX	-0.35%/°C
Temperature Coefficient of VOC	-0.29%/°C
Temperature Coefficient of ISC	0.05%/°C

CURVE CHARACTERISTICS

