

MEGA 100

Portable Solar Panel

100W

Maximum Power Output

36 CELLS

Monocrystalline Module

±5%W









Positive Power Tolerance

16.9%

Maximum Efficiency



FEATURES

-  5 buss 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 (MC4) 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).

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)	100 W
Power Output Tolerance-PMAX (W)	±5% W
Maximum Power Voltage-VMPP (V)	18.4 V
Maximum Power Current-IMPP (A)	5.43 A
Open Circuit Voltage-VOC (V)	22.6 V
Short Circuit Current-ISC (A)	5.72 A
Module Efficiency η_m (%)	16.9 %

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

MECHANICAL DATA

Solar Cells	Monocrystalline 158.75 × 158.75 mm (6 inches)
Module Dimensions (Unfolded)	43.3 × 27.0 × 1.4 inches (1100 × 686 × 35 mm)
Module Dimensions (Folded)	22.0 × 27.0 × 2.8 inches (558 × 686 × 70 mm)
Cell Orientation	36 cells (6 × 6)
Weight	21.5 lb (9.8 kg)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Backsheet	Black
Connector	MC4
Frame	Anodized Aluminium Alloy
Junction Box	IP 65
Cables	Photovoltaic Technology Cable 2.5 mm ² (#12 gauge), 35 inches (900 mm) Length

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	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

