

MEGA 550

Monocrystalline Solar Panel

550W

Maximum Power Output

144 CELLS

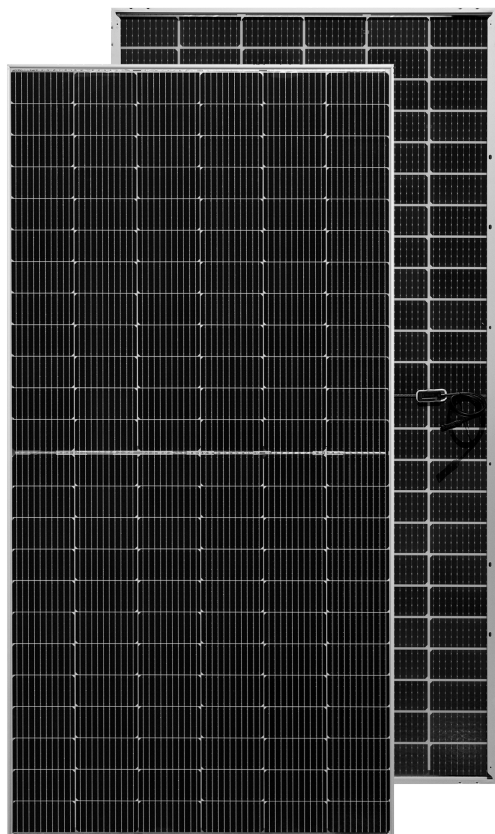
Monocrystalline Module

0~+5W

Positive Power Tolerance

21.3%

Maximum Efficiency



FEATURES



10 busbar 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).

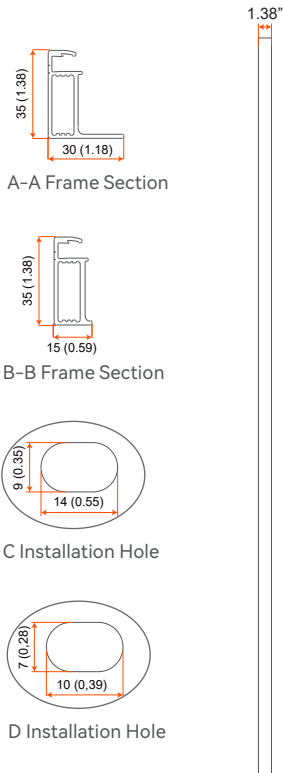
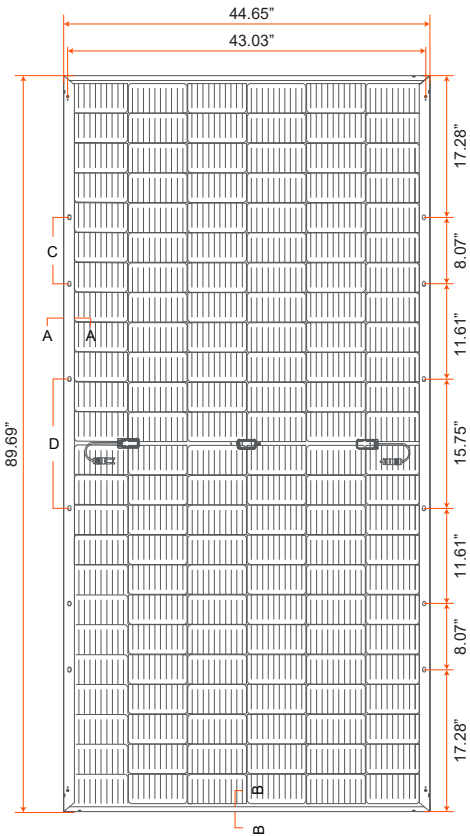
Pre-drilled holes compatible with ground mounts, Z brackets, pole mounts and tilt mounts.

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)	550 W
Power Output Tolerance-PMAX (W)	0~+5 W
Maximum Power Voltage-VMPP (V)	41.96 V
Maximum Power Current-IMPP (A)	13.11 A
Open Circuit Voltage-VOC (V)	49.90 V
Short Circuit Current-ISC (A)	14.00 A
Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	30 A
Module Efficiency η m (%)	21.3 %
STC: Irradiance 1000 W/m ² , Cell Temperature 25 °C, Air Mass AM = 1.5	

MECHANICAL DATA

Solar Cells	Mono PERC 182 mm (7.2 in)
Module Dimensions	89.69 × 44.65 × 1.38 in (2278 × 1134 × 35 mm)
Cell Orientation	144 cells (6 × 24)
Weight	73.19 lb (33.2 kg)
Junction Box	IP 68 rated, 3 bypass diodes
Cables	4mm ² (IEC),12AWG(UL)-525/+125mm (-20.67/+4.92in.) or customized
Connector	QC4.10 plus
Front Cover	2.0mm (0.079in.) semi-tempered AR glass
Back Cover	2.0mm (0.079in.) semi-tempered glass
Container	31 pcs/Pallet, 558 pcs/40' HC

TEMPERATURE RATINGS

Nominal Module Operating Temperature	42°C (±2°C)
Nominal Cell Operating Temperature	45°C (±2°C)
Temperature Coefficient of PMAX	-0.35%/°C
Temperature Coefficient of VOC	-0.27%/°C
Temperature Coefficient of ISC	0.05%/°C

CURVE CHARACTERISTICS

