

# MEGA 550

Monocrystalline Solar Panel

## 550W

Maximum Power Output

## 144 CELLS

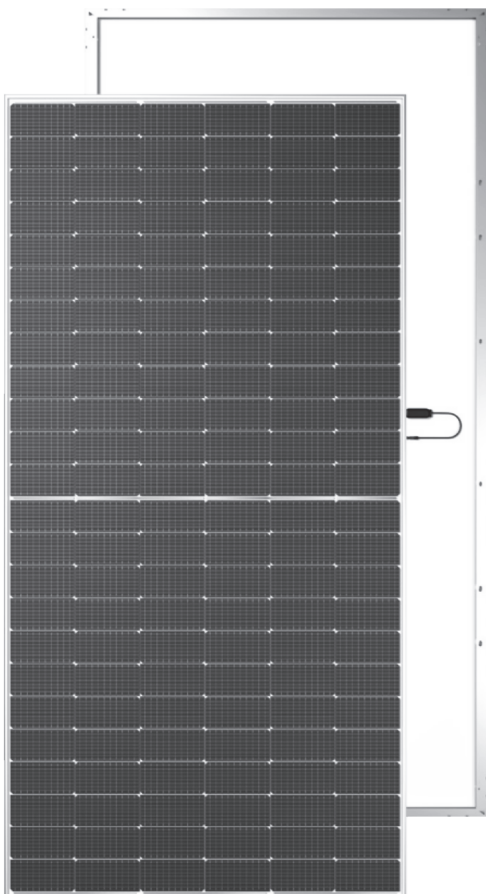
Monocrystalline Module

## 0~+5W




Positive Power Tolerance

## 21.3%

Maximum Efficiency



## FEATURES

-  9 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 (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).

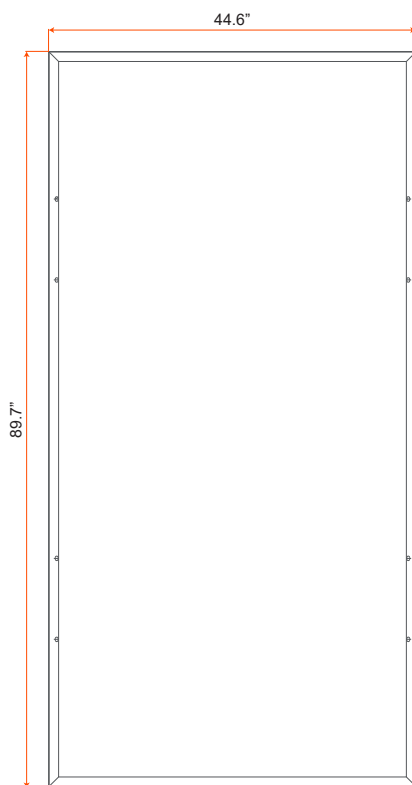
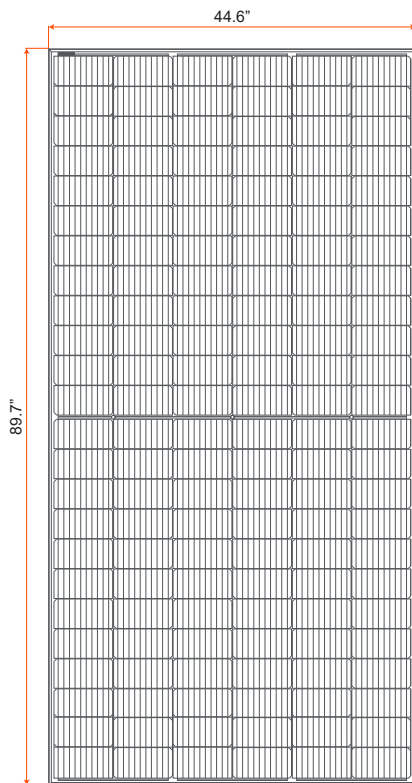
Pre-drilled holes compatible with ground mounts, Z brackets, pole mounts and tilt mounts.

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)	42.0 V
Maximum Power Current-IMPP (A)	13.1 A
Open Circuit Voltage-VOC (V)	49.8 V
Short Circuit Current-ISC (A)	14.0 A
Module Efficiency $\eta_m$ (%)	21.3 %

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25 °C, Air Mass AM = 1.5

### MECHANICAL DATA

Solar Cells	Monocrystalline 7.2 × 3.6 in (182 × 91 mm)
Module Dimensions	89.7 × 44.6 × 1.2 in (2278 × 1134 × 30 mm)
Cell Orientation	144 cells (2 × (6 × 12))
Weight	73.9 lb (33.5 kg)
Glass	3.2 mm (0.13 in), High Transmission, AR Coated Tempered Glass
Backsheet	White
Connector	Solar Connectors
Frame	Anodized Aluminium Alloy
Junction Box	IP 68, 3 bypass diodes
Cables	Photovoltaic Technology Cable 4.0 mm <sup>2</sup> (#12 gauge), 15.7 in (400 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

