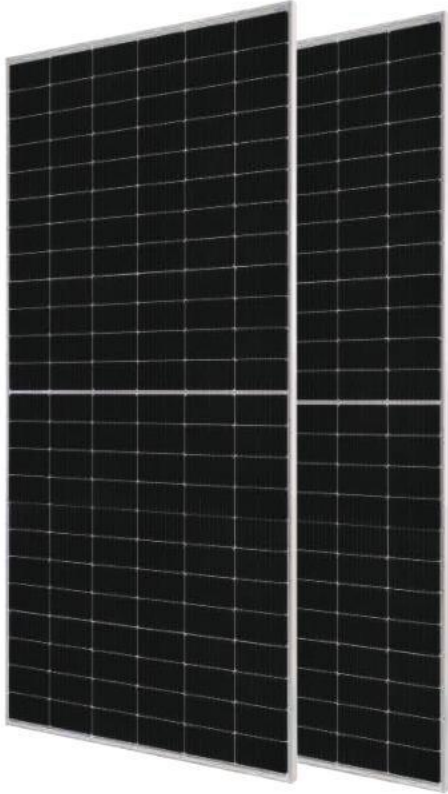


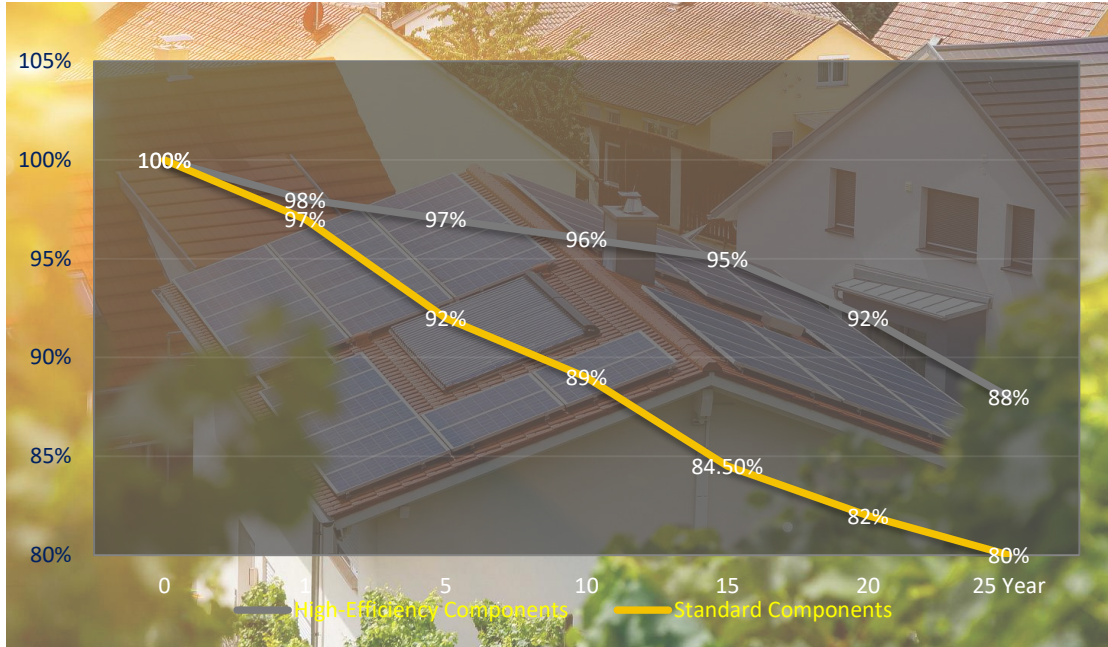
550Watts Monocrystalline Solar Panel



Product Features

- **【High Conversion Efficiency】** Up to 21.3% conversion efficiency.
- **【Aluminum Alloy Frame】** Aluminum alloy frame has high strength and strong resistance to mechanical impact.
- **【Limited Power Tolerance Range】** Ensure the output power within the tolerance range of $\pm 3\%$
- **【Excellent Weak Light Performance】** This product has excellent weak light performance
- **【IP68 Protection】** This solar panel with multilayer lamination & resin-filled junction box could resist rain, snow, fog and lightning outdoor. Solar panel battery charger also was designed to withstand extreme wind of up to 2400 Pa and snow loads of up to 5400 Pa.
- **【Hail tested】** Pass hail test: diameter 25mm, impact speed 23m/s.
- **【10 Years warranty】** 10 Years warranty for material and processing
- **【25 Years Output】** 25 Years warranty for extra linear power output

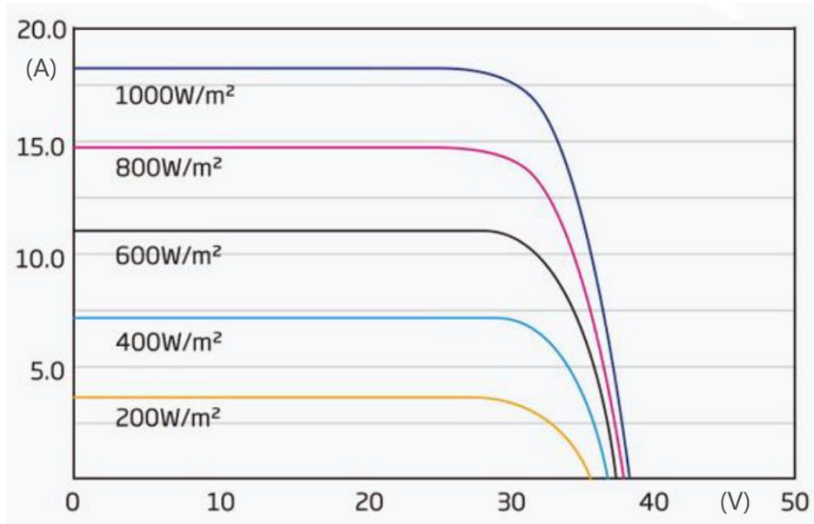
Linear Power Guarantee



Electrical characteristics

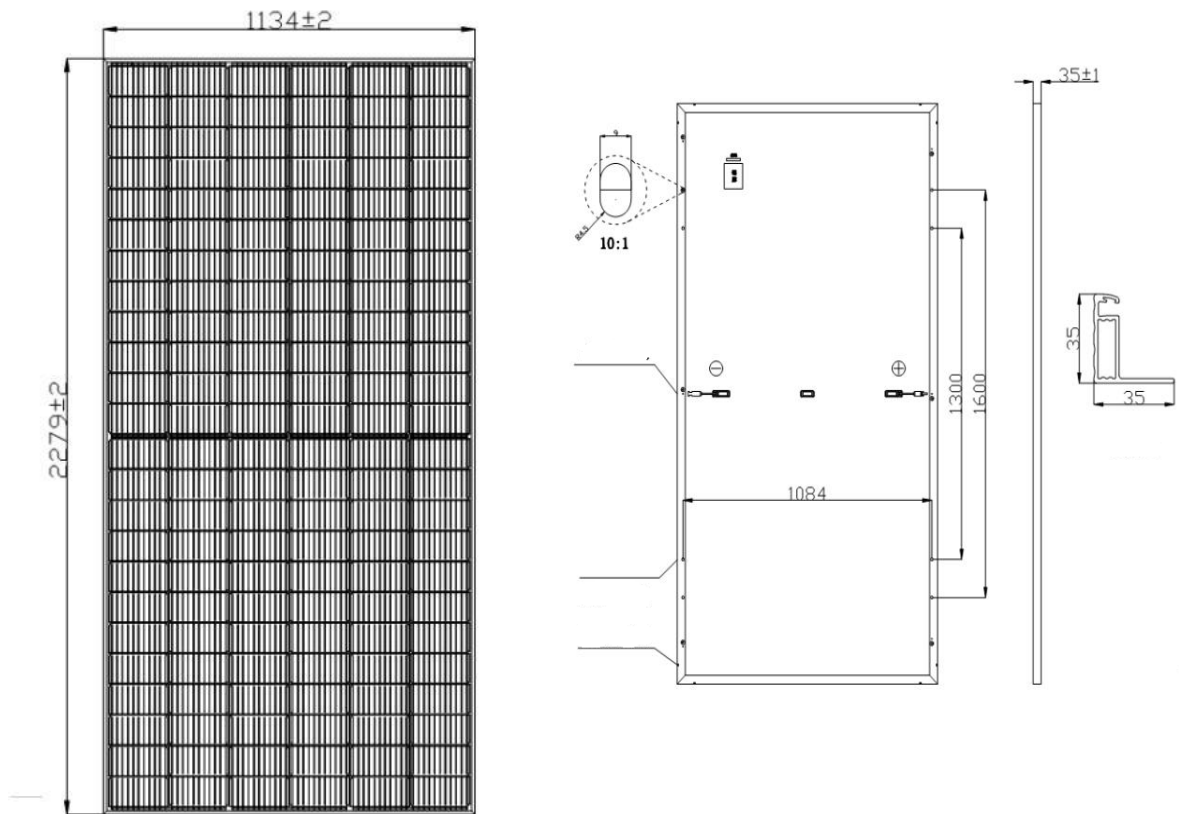
STC:AM1.5 1000W/m ² 25°C NOCT:AM1.5 800W/m ² 20°C 1m/s		
Test Condition	STC	NOCT
P_{max}	550W	403.6W
V_{mp}	41.62V	38.69V
V_{oc}	49.55V	46.54V
I_{mp}	13.2A	10.43A
I_{sc}	13.89A	11.2A
Operating Module Temperature	-40 °C / +85 °C	
Efficiency	21.3%	
Power Tolerance	±3 %	

I-V Curve



Mechanical Parameter

Mechanical	
Solar Cells Dimension	Mono 182*91mm
NO. Of cells	144(6×24)
PV Dimension	2279*1134*35*35 mm
Weight	27.3Kg
Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68 rated
	TUV
Output cable	4.0 MM2 (0.16 in2), Length: (+)300mm/(-)400mm (customizable)
connector	Original MC4/ compatible with MC4



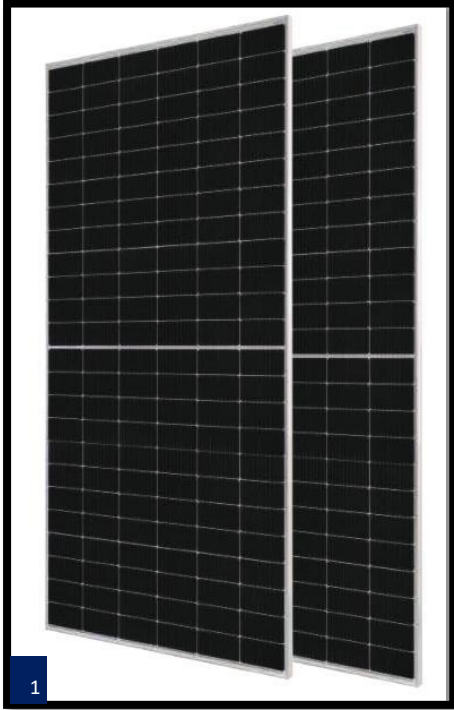
Temperature Characteristics

Temperature	
Nominal Battery Operating Temperature (NOCT)	45±2 °C
Peak Power Temperature Coefficient	-0.34%/°C
Open Circuit Voltage Temperature Coefficient	-0.265%/°C
Short Circuit Current Temperature Coefficient	0.050%/°C

Product warranty

- The reasonable use of the solar panels produced can last for more than 25 years
- Maintain more than 90% of minimum rated power for 10 years.
- Maintain more than 80% of minimum rated power for 25 years.

Product Images



Certifications and standards:
IEC 61215, IEC 61730, conformity to CE

