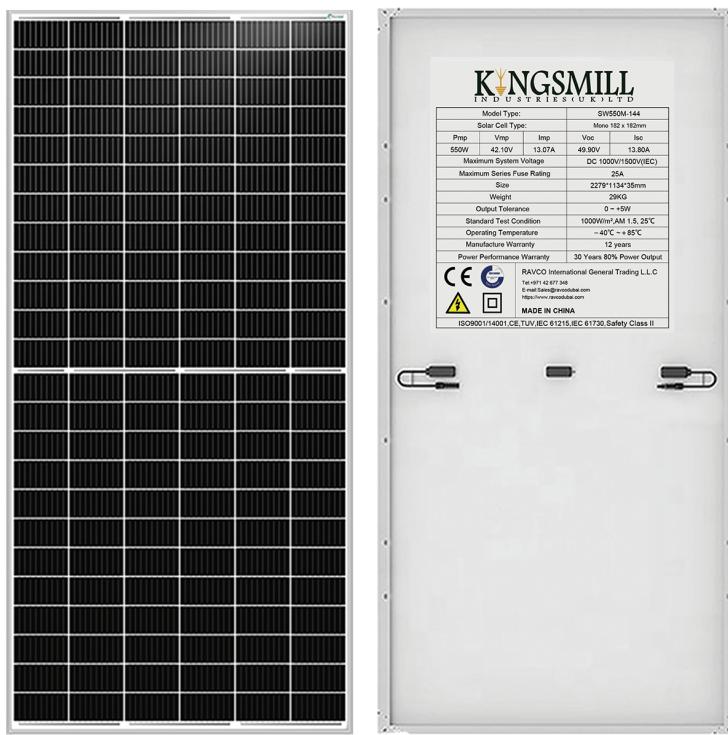


Introduction

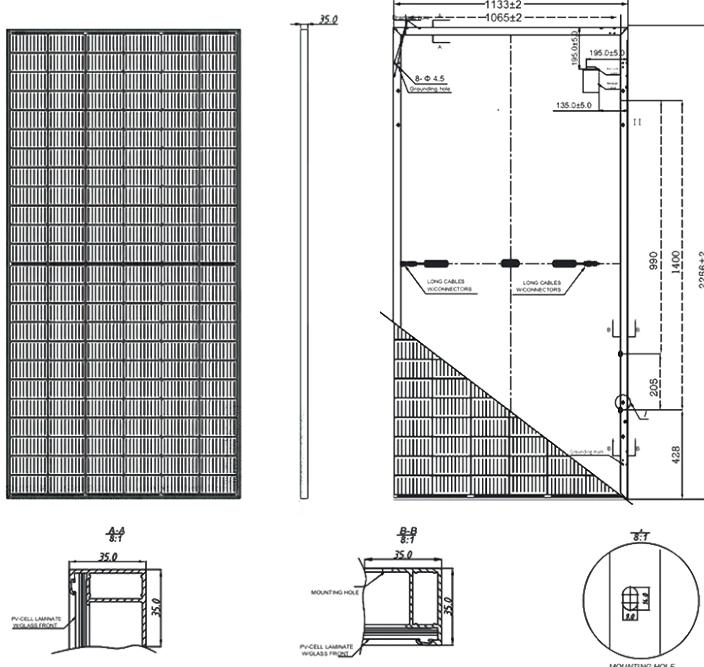
550W Photovoltaic Solar Panels are certified for the most challenging environmental conditions. This 550W Photovoltaic high-power monocrystalline solar panel operates at 21.30% efficiency to maximize the light absorption area.

Product Options



Mono Solar Panel Features

- Widely using of the most popular and mature type of modules for solar system
- High power output and highest conversion efficiency of 21.30%
- Anti-reflective and anti-soiling surface reduces power loss from dirt and dust
- Outstanding Performance in low-light irradiance environments
- Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and Snow loads (5400Pa)
- Positive power tolerance: 0~+5W



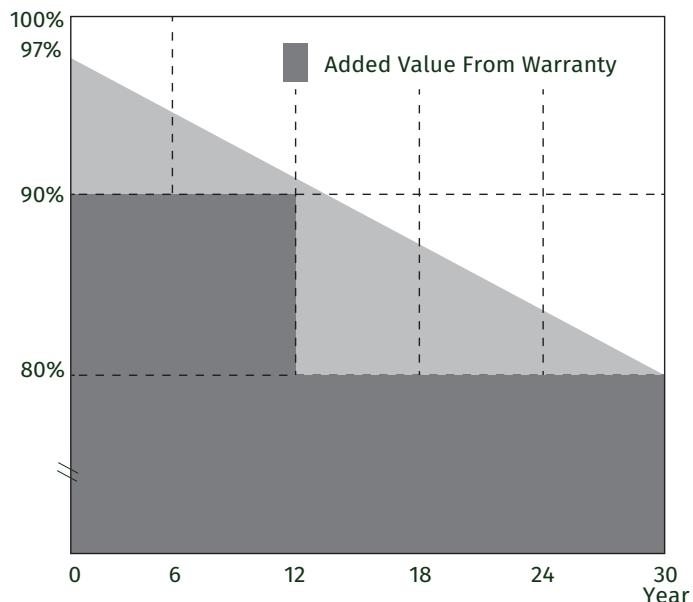
Electrical Characteristics(STC)

Module Type	KMSW550M-144
Maximum Power (Pmax)	550W
Maximum Power Voltage (Vmp)	42.10V
Maximum Power Current (Imp)	13.07A
Open-circuit Voltage (Voc)	49.90V
Short-circuit Current (Isc)	13.80A
Module Efficiency (%)	21.30%
Power Tolerance	0~+5W
Temperature Coefficient of Isc	+0.043%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Pmax	-0.36%/°C

Product Features

Warranty
12 years for product defects in materials & workmanship
12 years for 90% of warranted minimum power output
30 years for 80% of warranted minimum power output
30 years liner warranty

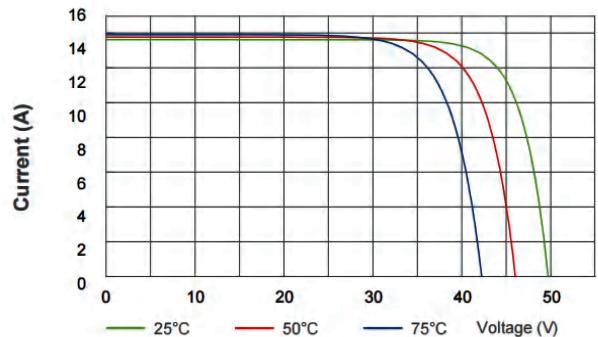
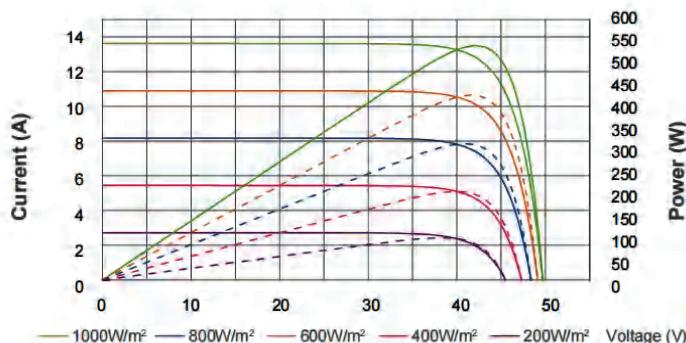
Reliable Quality
Positive power tolerance: 0~+5W
100% EL Double-inspection ensures modules are defects free
Modules Binned by Current to improve system performance
Potential induced Degradation (PID) Resistant



Mechanical Parameters	
Cell(mm)	Mono 182*182mm
Weight(kg)	29kg
Glass Thickness	3.2mm,AR Coating Tempered Glass
Dimensions (L*W*H)(mm)	2279*1134*35mm
Cable Cross Section Size (mm ²)	4
Cable Cross Section Length (mm)	300
No.of Cells and Connections	144(6*24)
Junction Box	IP67
Connector	MC4 Compatible

Working Conditions	
Maximum System Voltage	DC 1000V/1500V(IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	25A
Maximum Static Load,Front (e.g.,snow and wind)	5400Pa (112 lb/ft ²)
Maximum Static Load,Back (e.g.,wind)	2400Pa (50 lb/ft ²)
NOCT	45±2°C
Positive power tolerance	0~ +5W
Application Class	Class A

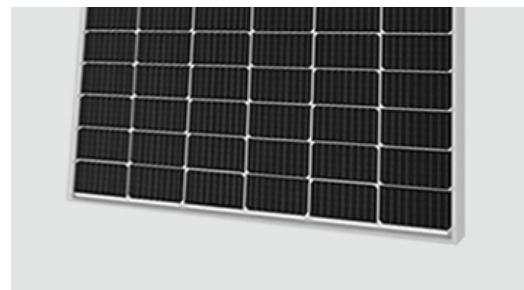
I-V Curve



Product Features

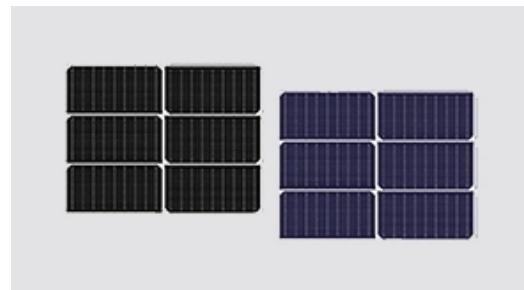
GLASS

- Antireflective glass
- Self-cleaning function
- Module efficiency is increased by 2%
- Service life as long as 25 years (30 years optional)
- Translucency of normal luminance is increased by 2%



SOLAR CELL

- Uniform color
- High PID resistant
- Low breakage rate
- High stunt-resistance
- High model efficiency up to 20%



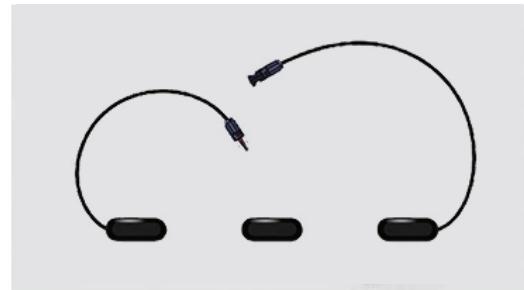
FRAME

- Conventional frame
- Seal-lip design glue injection
- Serrated-clip design tensile strength
- Boost bearing capability and prolong service life



JUNCTION BOX

- Heat dissipation
- Long service life
- IP67 protection level
- Innovative Full-Glue-Filled
- Waterproofness Junction Box



More Information

All with A Grade for on-grid & off-grid use for residential and public rooftop and ground mounting
Solar panels are a clean source of energy that use the sun's rays to convert them into electricity or heat.

Our clean energy solutions provide electrical power as a way to decarbonize
and transition to clean energy in our mission to combat climate change.