

Solar N Plus New Energy Technology Co., LTD

Produce Specification	Produce Name	Monocrystalline High Efficiency PV Module	Document Number	
	Document Name	Spec. Of SP-M10/144HG530-550W	Version Number	A/0

Typical Electrical Characteristics at Standard Test Conditions (STC)

Typical Type	Unit	SP-M10/144HG530W	SP-M10/144HG535W	SP-M10/144HG540W	SP-M10/144HG545W	SP-M10/144HG550W
Max-Power	Pm(W)	530	535	540	545	550
Power Tolerance	W	0~+5				
Max-Power Voltage	Vm(V)	40.75	40.94	41.13	41.32	41.51
Max-Power Current	Im(A)	13.01	13.07	13.13	13.19	13.25
Open-Circuit Voltage	Voc(V)	49.35	49.54	49.73	49.92	50.11
Short-Circuit Current	Isc(A)	13.77	13.83	13.89	13.95	14.01

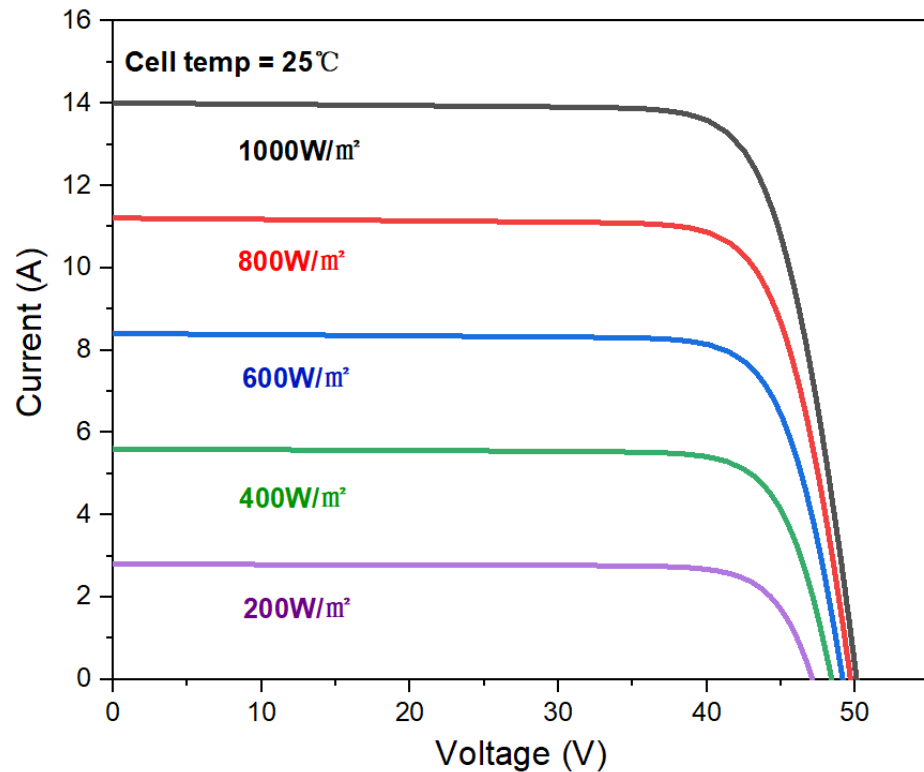
STC:AM=1.5, 1000W/m² irradiance, Module Temperature 25°C

Certifications	TUV
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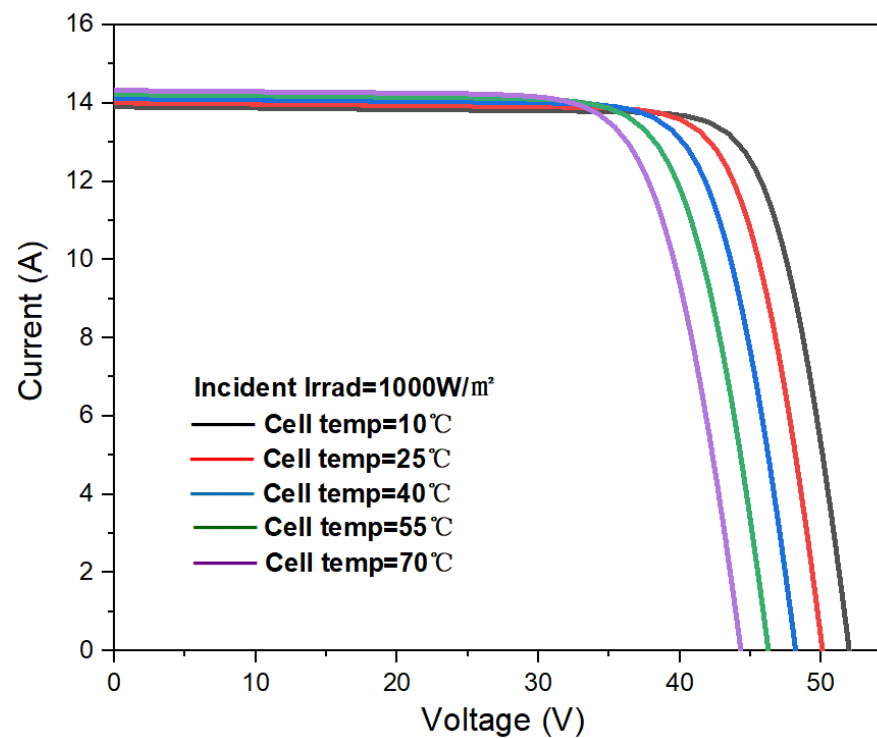
OPERATING CONDITIONS		MECHANICAL PROPERTY	
Max. system voltage	DC1500V(IEC)	Dimension(L×W×H)	2278mm×1134mm×30mm
Max. series fuse rating	25A	Weight	32.0kg
Operating temperature range	-40°C~+85°C	Cell	10BB single crystal / 182*91mm
Mechanical load	5400Pa/2400Pa	Glass type	Antireflection coated heat-enhanced glass /2.0mm
Max. hailstone impact(diameter/velocity)	Φ25mm hail, from 1 m of distance at 23 m/s	Frame	Anodized Aluminum alloy
Application Class	Class A	Junction Box	IP68
Fire Class	Class C	Cable	4mm ² ,300mm or Customized•Length
		Connector	MC4 Compatible

IV Curve

I-V Curves of SP-M10/144HG550W at different irradiance



I-V Curves of SP-M10/144HG550W at different cell temperature



Performance Warranty

Within the first year from the date of installation and normal operation, the output power shall not be less than 98 % of the product's minimum output power as set forth in the specifications, Afterwards, maximum 0.45% output decrease per year. After 30 years, the product's output power shall not be less than 84.95% of its minimum output power as set forth in the specifications.

Dimensions

