

Solar N Plus New Energy Technology Co., LTD

Produce Specification	Produce Name	Monocrystalline High Efficiency PV Module	Document Number	
	Document Name	Spec. Of SP-M10/120HG435-460W	Version Number	A/0

Typical Electrical Characteristics at Standard Test Conditions (STC)

Typical Type	Unit	SP-M10/120HG435W	SP-M10/120HG440W	SP-M10/120HG445W	SP-M10/120HG450W	SP- M10/120HG455W	SP- M10/120HG460W
Max-Power	Pm(W)	435	440	445	450	455	460
Power Tolerance	W	0~+5					
Max-Power Voltage	Vm(V)	34.33	34.49	34.65	34.78	34.92	35.06
Max-Power Current	Im(A)	12.68	12.76	12.85	12.94	13.03	13.12
Open-Circuit Voltage	Voc(V)	40.94	41.02	41.10	41.18	41.26	41.34
Short-Circuit Current	Isc(A)	13.68	13.73	13.79	13.85	13.91	13.97

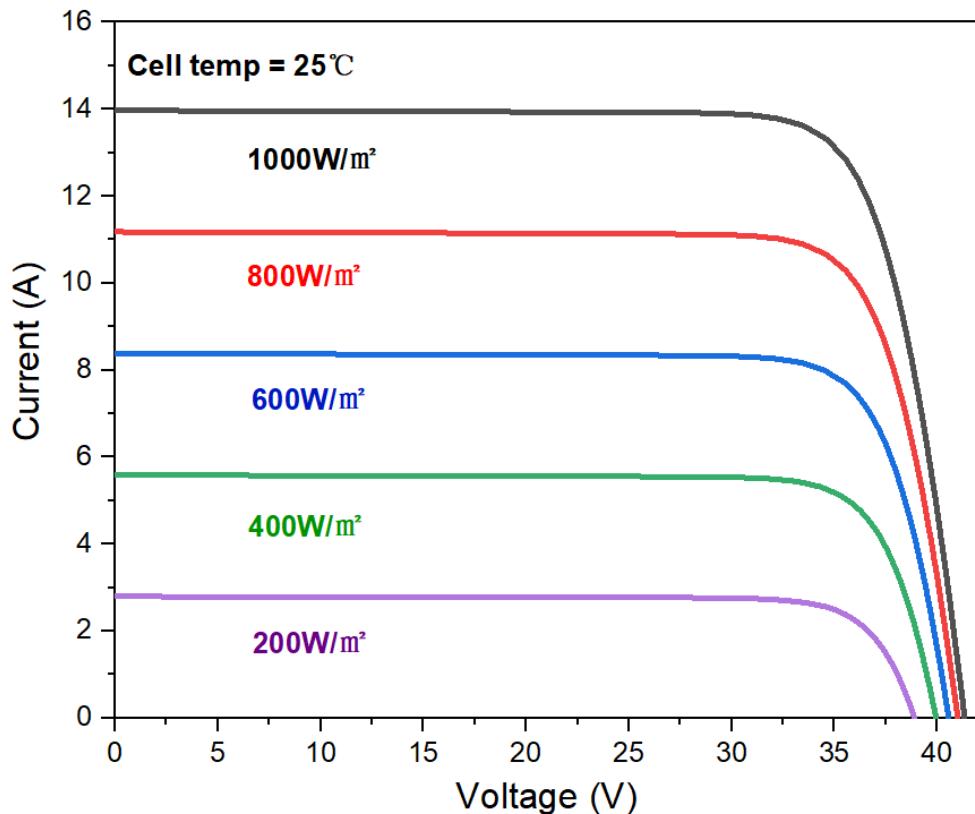
STC:AM=1.5, 1000W/m² irradiance, Module Temperature 25°C

Certifications	TUV
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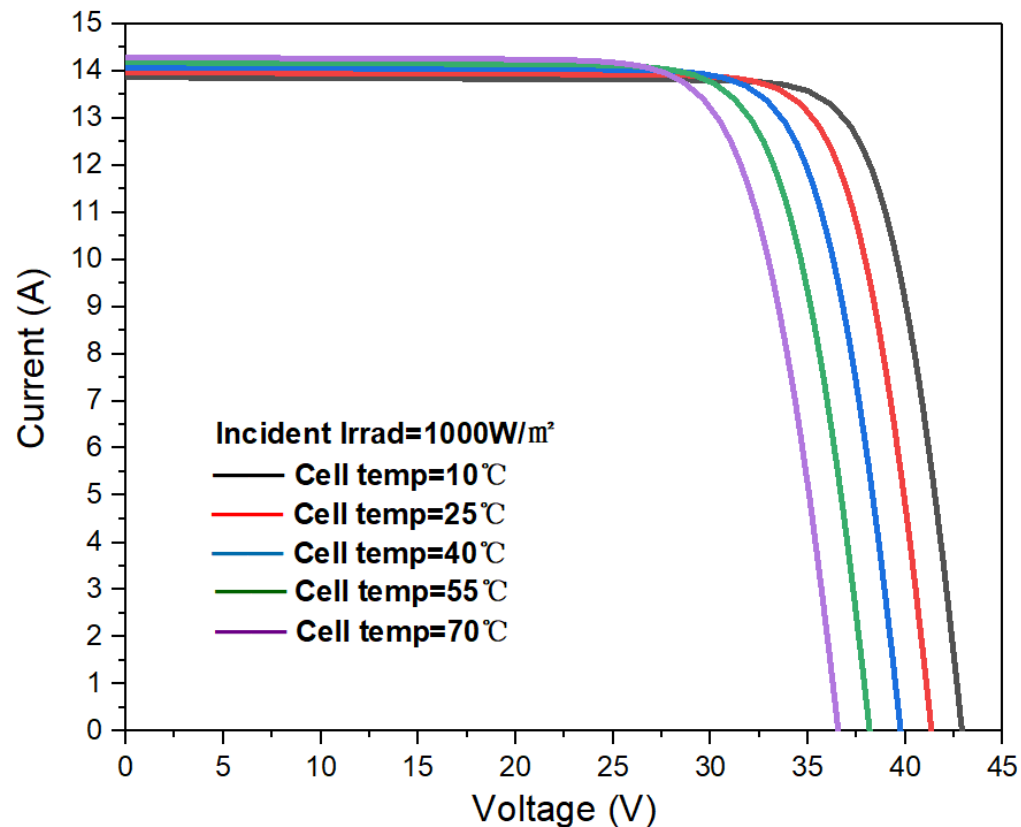
OPERATING CONDITIONS		MECHANICAL PROPERTY	
Max. system voltage	DC1500V(IEC)	Dimension(L×W×H)	1903mm×1134mm×30mm
Max. series fuse rating	25A	Weight	26.6kg
Operating temperature range	-40°C~+85°C	Cell	10BB single crystal / 182*91mm
Mechanical load	5400Pa/2400Pa	Glass type	Antireflection coated heat-enhanced 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- M10/120HG460W at different irradiance



I-V Curves of SP- M10/120HG460W 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

