

Solar N Plus New Energy Technology Co., LTD

Produce Specification	Produce Name	Monocrystalline High Efficiency PV Module	Document Number	
	Document Name	Spec. Of SP-M10/120H435-460W	Version Number	A/0

Typical Electrical Characteristics at Standard Test Conditions (STC)

Typical Type	Unit	SP-M10/120H435W	SP- M10/120H440W	SP- M10/120H445W	SP- M10/120H450W	SP- M10/120H455W	SP- M10/120H460W
Max-Power	Pm(W)	435	440	445	450	455	460
Power Tolerance	W	0~+5					
Max-Power Voltage	Vm(V)	33.50	33.64	33.78	33.92	34.06	34.20
Max-Power Current	Im(A)	13.00	13.09	13.18	13.27	13.36	13.45
Open-Circuit Voltage	Voc(V)	40.73	40.88	41.03	41.18	41.33	41.48
Short-Circuit Current	Isc(A)	13.68	13.73	13.79	13.85	13.93	14.01

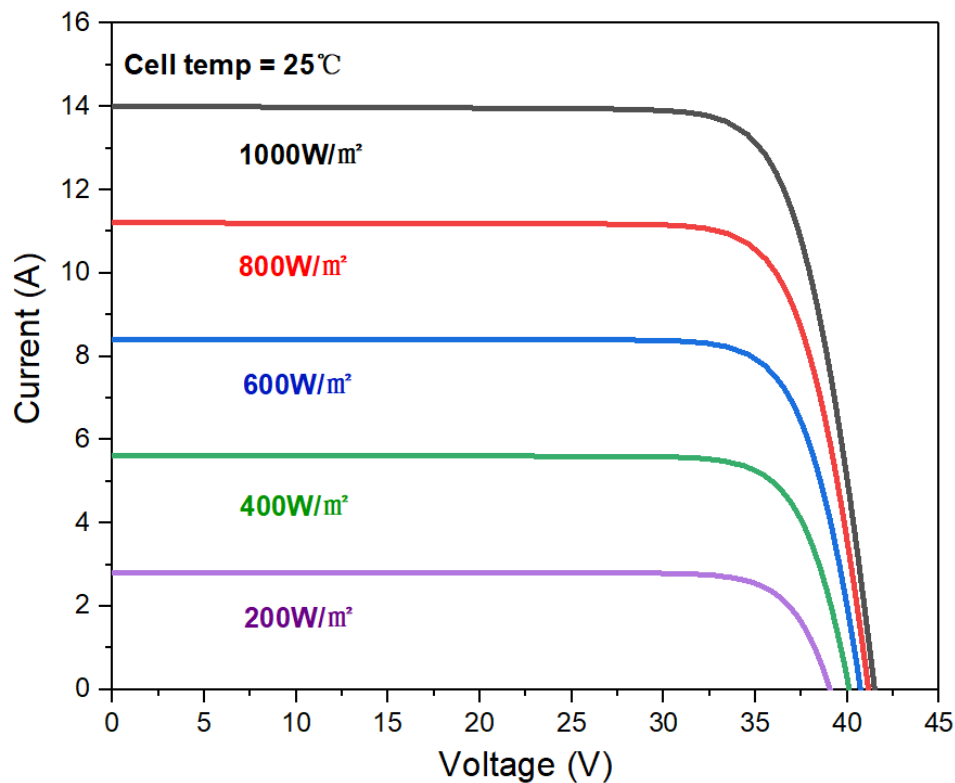
STC:AM=1.5, 1000W/m² irradiance, Module Temperature 25°C

Certifications	TUV
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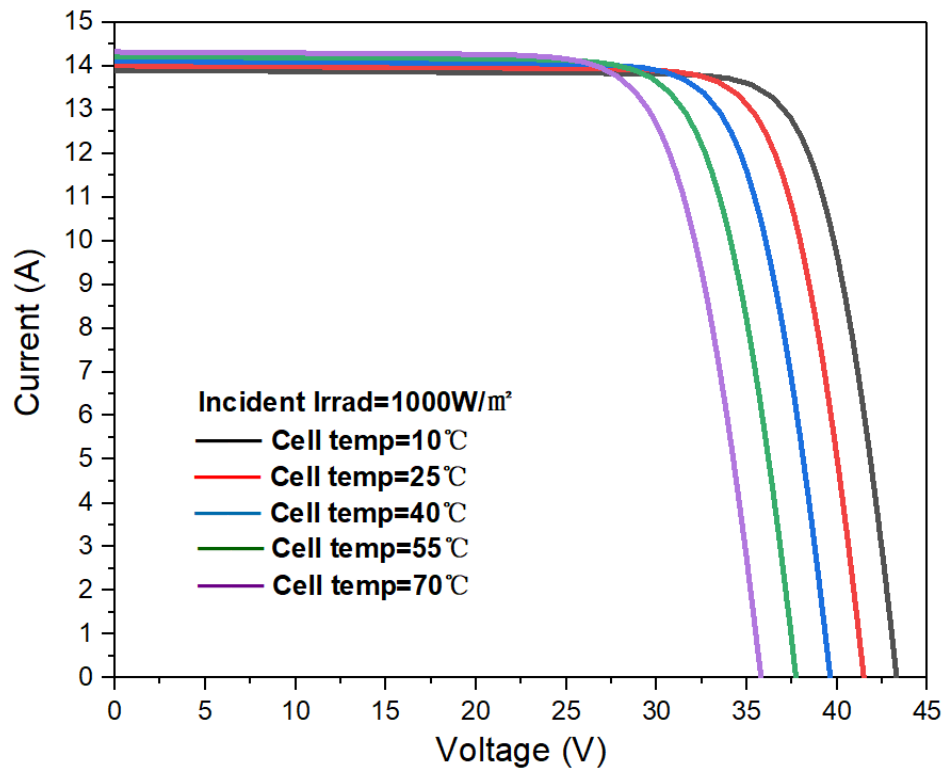
OPERATING CONDITIONS		MECHANICAL PROPERTY	
Max. system voltage	DC1500V(IEC)	Dimension(L×W×H)	1903mm×1134mm×35mm
Max. series fuse rating	25A	Weight	24.8kg
Operating temperature range	-40°C~+85°C	Cell	10BB single crystal / 182*91mm
Mechanical load	5400Pa/2400Pa	Glass type	Antireflection coated heat-enhanced glass /3.2mm
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-M10/120H460W at different irradiance



I-V Curves of SP-M10/120H460W 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 0.55% output decrease per year. After 25 years, the product's output power shall not be less than 84.8% of its minimum output power as set forth in the specifications.

Dimensions

