

Solar N Plus New Energy Technology Co., LTD

Produce Specification	Produce Name	Monocrystalline High Efficiency PV Module	Document Number	
	Document Name	Spec. Of SP-N16/108HG415-440W	Version Number	A/0

Typical Electrical Characteristics at Standard Test Conditions (STC)

Typical Type	Unit	SP-N16/108HG415W	SP-N16/108HG420W	SP-N16/108HG425W	SP-N16/108HG430W	SP-N16/108HG435W	SP-N16/108HG440W
Max-Power	Pm(W)	415	420	425	430	435	440
Power Tolerance	W	0~+5					
Max-Power Voltage	Vm(V)	31.49	31.70	31.91	32.12	32.30	32.51
Max-Power Current	Im(A)	13.18	13.25	13.32	13.39	13.47	13.54
Open-Circuit Voltage	Voc(V)	38.11	38.32	38.53	38.74	38.85	38.96
Short-Circuit Current	Isc(A)	13.92	14.00	14.08	14.16	14.24	14.32

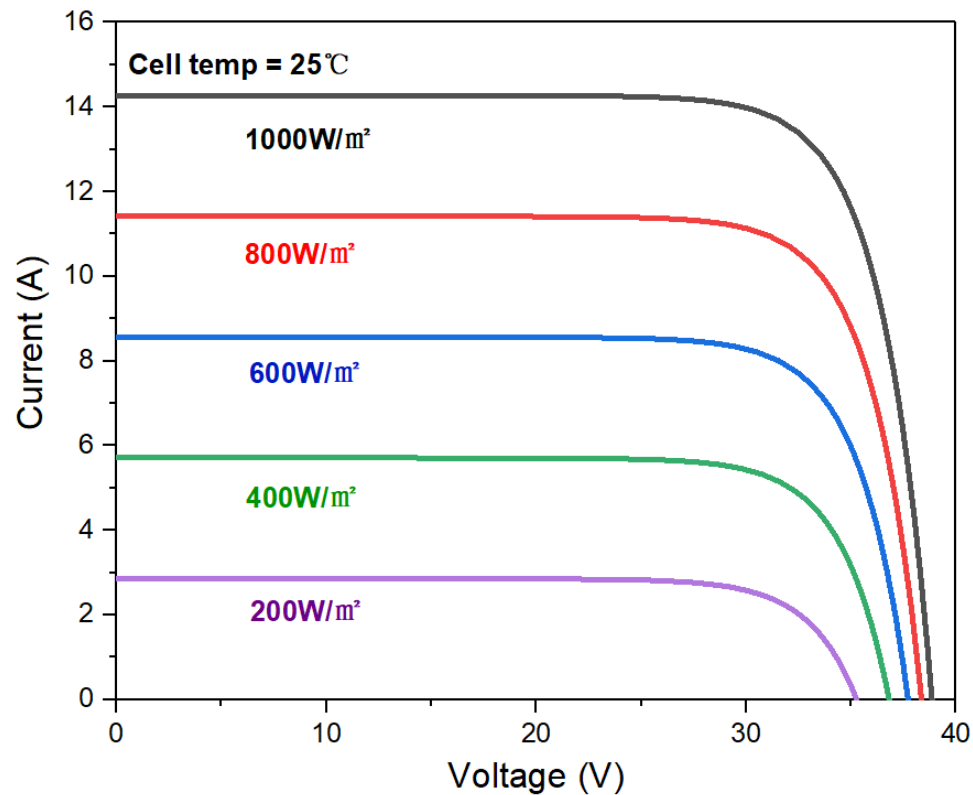
STC:AM=1.5, 1000W/m² irradiance, Module Temperature 25°C

Certifications	TUV
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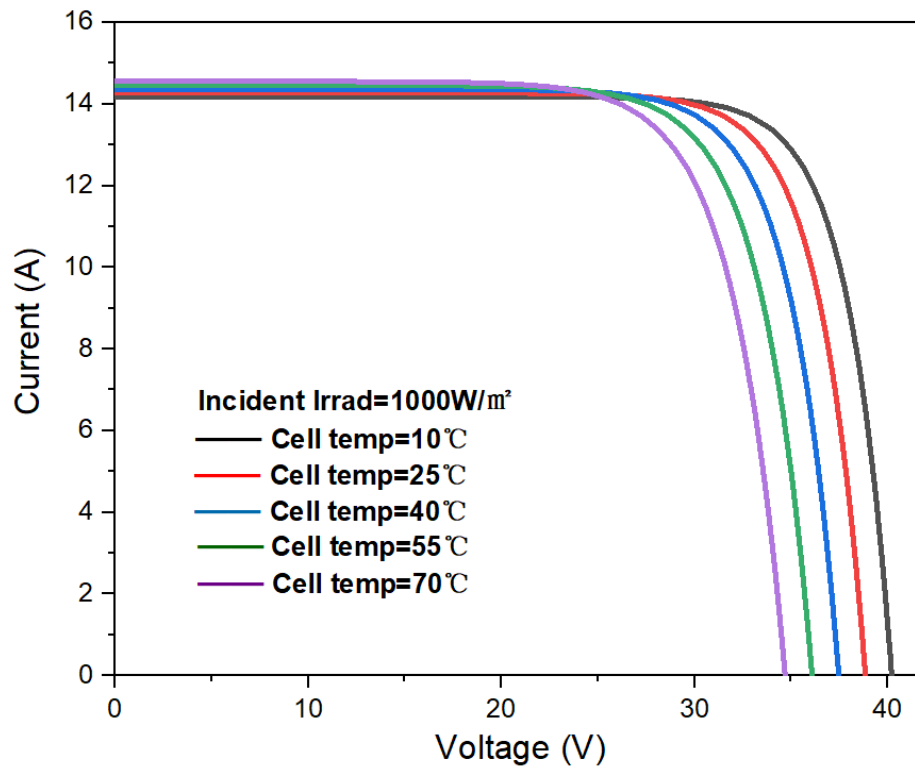
OPERATING CONDITIONS		MECHANICAL PROPERTY	
Max. system voltage	DC1500V(IEC)	Dimension(L×W×H)	1722mm×1134mm×30mm
Max. series fuse rating	25A	Weight	24.1kg
Operating temperature range	-40°C~+85°C	Cell	16BB single crystal / 182*91mm
Mechanical load	5400Pa/2400Pa	Glass type	Antireflection coated heat-enhanced 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-N16/108HG440W at different irradiance



I-V Curves of SP-N16/108HG440W 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 99 % of the product's minimum output power as set forth in the specifications, Afterwards, maximum 0.4% output decrease per year. After 30 years, the product's output power shall not be less than 87.4% of its minimum output power as set forth in the specifications.

Dimensions

