



SOLAR N PLUS

SP-N16/108H

Lightweight Module 425-440W



LIGHTWEIGHT

5.5kg/m², 50% lighter than conventional module;
Perfect for residential



EASY INSTALLATION

Easy to install and remove



HIGH STRENGTH

Fully tempered glass, good hail resistance, UV resistance,
corrosion resistance, capacity resistance performance

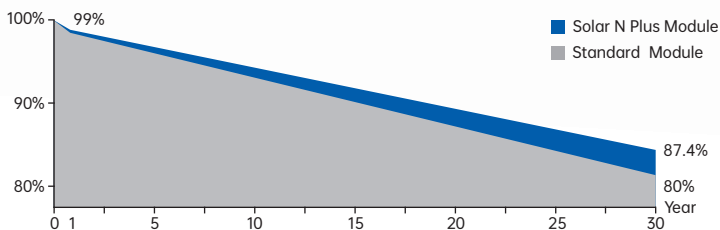
WARRANTY



Guarantee on product material
and workmanship



Linear power
output warranty



INSURANCE



中国平安
PINGAN

CERTIFICATION



- ISO 9001: 2015/quality management system
- ISO 14001: 2015/environment management system
- ISO 45001: 2018/occupation health safety management system

425-440W

SP-N16/108H

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	425	430	435	440
Power Tolerance	W		0~+5		
Maximum Power Voltage (Vm)	V	32.15	32.33	32.51	32.69
Maximum Power Current (Im)	A	13.22	13.30	13.38	13.46
Open Circuit Voltage (Voc)	V	38.59	38.72	38.85	38.98
Short Circuit Current (Isc)	A	14.17	14.25	14.33	14.41
Module Efficiency (ηm)	%	21.8	22.1	22.3	22.5

STC:AM=1.5, irradiance=1000W/m², module temperature=25°C

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	326	329	333	337
Maximum Power Voltage (Vm)	V	30.10	30.20	30.40	30.50
Maximum Power Current (Im)	A	10.82	10.89	10.96	11.04
Open Circuit Voltage (Voc)	V	36.70	36.80	36.90	37.00
Short Circuit Current (Isc)	A	11.42	11.49	11.55	11.62

NMOT: irradiance=800W/m², environment temperature=20°C, wind speed=1m/s

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	1720×1132×30mm
Weight	10.8kg
Number of Cells	108 (6×18)
Front Glass	1.6mm AR-coating heat-strengthened glass
Frame	Anodized aluminum alloy, Silver color
Junction Box	IP68
Output Cables	4mm², 300mm or customized length
Connector	MC4 Compatible

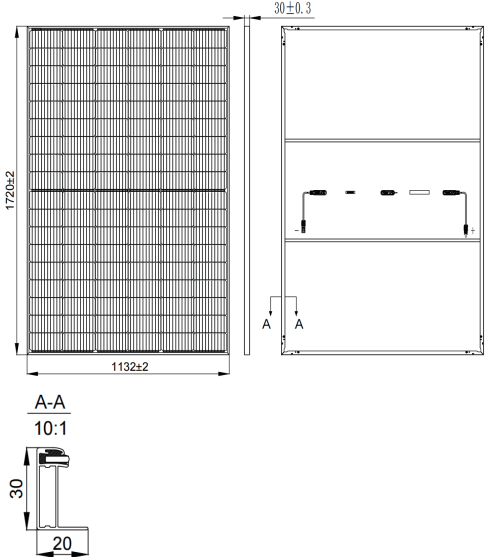
APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
Operating Temperature	-40°C ~ +85°C
Mechanical Load	+3600Pa/-2400Pa
Hail Test	25mm diameter hail at 23m/s
Application Rating	Class A

TEMP CHARACTERISTICS

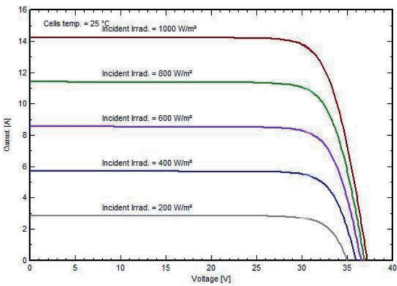
Nominal Module Operating Temperature	43±2°C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of ISC	0.048%/°C

TECHNICAL DRAWING

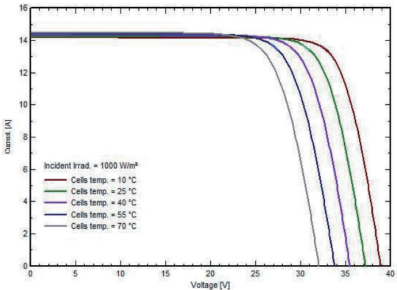


I-V CURVE

I-V characteristics at different irradiance (SP-N16/108H440W)



I-V characteristics at different temperatures (SP-N16/108H440W)



PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	36 pcs
Pieces per Container	936 pcs



SOLAR N PLUS NEW ENERGY TECHNOLOGY CO., LTD

No.1 Jianye road, Zhongxin Suchu Industrial Development Zone, Chuzhou City, 239000, Anhui Province, China
025-52806120
www.solarnplus.com

Solar N Plus reserves the sole right of interpretation.
Version No.20250227-T-V3.0