



# SOLAR N PLUS

SP-N16/108HG

# TOPcon Bifacial 430-450W



**HIGHER EFFICIENCY**



**LOWER TEMPERATURE COEFFICIENT**



**LOW ATTENUATION, LONG WARRANTY**



**HIGHER BIFACIALITY**

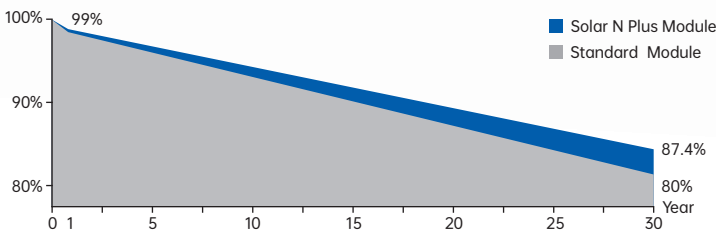
## WARRANTY



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

# 430-450W SP-N16/108HG

## ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	430	435	440	445	450
Power Tolerance	W			0~+5		
Maximum Power Voltage (Vm)	V	33.7	33.9	34.1	34.3	34.5
Maximum Power Current (Im)	A	12.76	12.83	12.91	12.98	13.05
Open Circuit Voltage (Voc)	V	39.25	39.45	39.65	39.85	40.05
Short Circuit Current (Isc)	A	13.56	13.61	13.66	13.71	13.76
Module Efficiency (ηm)	%	22.0	22.3	22.5	22.8	23.0

STC:AM=1.5, irradiance=1000W/m<sup>2</sup>, module temperature=25°C

## ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	324	328	332	336	340
Maximum Power Voltage (Vm)	V	30.92	31.15	31.35	31.55	31.72
Maximum Power Current (Im)	A	10.48	10.53	10.59	10.65	10.72
Open Circuit Voltage (Voc)	V	37.10	37.30	37.50	37.70	37.89
Short Circuit Current (Isc)	A	10.91	10.96	11.00	11.05	11.10

NMOT: irradiance=800W/m<sup>2</sup>, environment temperature=20°C, wind speed=1m/s

## REAR SIDE POWER GAIN

5%	Max Power	452W	457W	462W	467W	473W
	Efficiency	17.48%	17.68%	17.88%	18.09%	18.29%
15%	Max Power	495W	500W	506W	512W	518W
	Efficiency	19.14%	19.37%	19.59%	19.81%	20.03%
25%	Max Power	538W	544W	550W	556W	563W
	Efficiency	20.81%	21.05%	21.29%	21.53%	21.77%

## MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	1722×1134×30mm
Weight	24kg
Number of Cells	108 (6×18)
Front Glass	2.0mm AR-coating heat-strengthened glass
Rear Glass	2.0mm heat-strengthened glass
Frame	Anodized aluminum alloy, silver color
Junction Box	IP68
Output Cables	4mm <sup>2</sup> , 300mm or customized length
Connector	MC4 Compatible

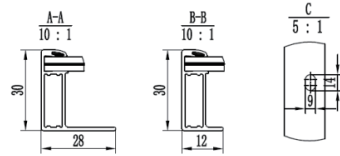
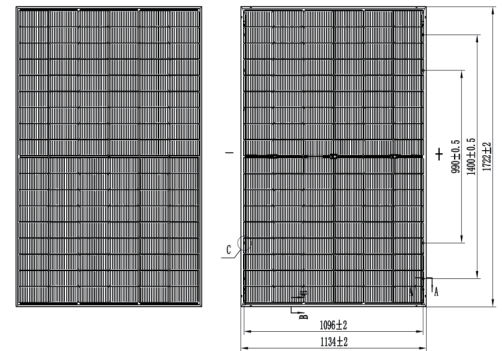
## APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
Operating Temperature	-40°C ~ +85°C
Mechanical Load	5400Pa/2400Pa
Hail Test	25mm diameter hail at 23m/s
Bifaciality	80±5%
Application Rating	Class A

## TEMP CHARACTERISTICS

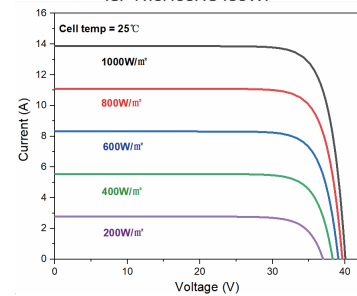
Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of ISC	0.045%/°C

## TECHNICAL DRAWING

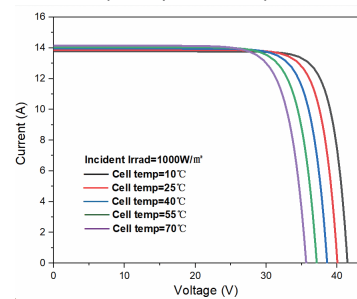


## I-V CURVE

I-V characteristics at different irradiance (SP-N16/108HG450W)



I-V characteristics at different temperatures (SP-N16/108HG450W)



## PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	36 pcs
Packaging box Size	1779×1145×1260mm
Pieces per Container	936 pcs



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Version No.20240520V3.0