



SOLAR N PLUS

SP-N16B/96H

TOPcon Monofacial 435-450W



HIGHER
EFFICIENCY



LOWER TEMPERATURE
COEFFICIENT



LOW ATTENUATION,
LONG WARRANTY

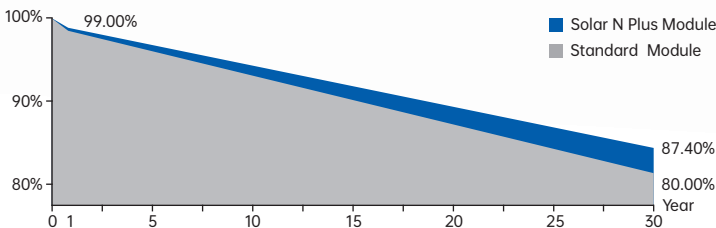
WARRANTY



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

435-450W

SP-N16B/96H

TOPCON MONOFACIAL

 SP-N16B/96H
435W

 SP-N16B/96H
440W

 SP-N16B/96H
445W

 SP-N16B/96H
450W

ELECTRICAL CHARACTERISTICS (STC)

		SP-N16B/96H 435W	SP-N16B/96H 440W	SP-N16B/96H 445W	SP-N16B/96H 450W
Maximum Power (Pmax) / tolerance ±3%	W	435	440	445	450
Power Distribution	W			0~+5	
Maximum Power Voltage (Vmp)	V	29.0	29.2	29.4	29.6
Maximum Power Current (Imp)	A	15.00	15.07	15.14	15.20
Open Circuit Voltage (Voc) / tolerance ±3%	V	35.05	35.25	35.45	35.65
Short Circuit Current (Isc) / tolerance ±4%	A	15.83	15.9	15.96	16.02
Module Efficiency (ηm)	%	21.8	22.0	22.3	22.5

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

ELECTRICAL CHARACTERISTICS (NMOT)

		331	335	338	342
Maximum Power (Pmax) / tolerance ±3%	W	331	335	338	342
Maximum Power Voltage (Vmp)	V	27.32	27.52	27.72	27.92
Maximum Power Current (Imp)	A	12.14	12.17	12.21	12.24
Open Circuit Voltage (Voc) / tolerance ±3%	V	32.77	32.94	33.11	33.28
Short Circuit Current (Isc) / tolerance ±4%	A	12.76	12.78	12.81	12.84

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

435-450W SP-N16B/96H

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	1762×1134×30mm
Weight	20.2kg
Number of Cells	96 (6×16)
Glass	3.2mm AR-coating heat-strengthened glass
Frame	Anodized aluminum alloy, silver color
Junction Box	IP68
Output Cables	4.0mm ² , 300mm or customized length
Connector	Tonglin TL-CABLE01S Pro

APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Operating Temperature	-40°C ~ +85°C
Maximum Mechanical load	5400Pa/2400Pa
Hail Test	25mm diameter hail at 23m/s
Application Rating	Class II
Fire Safety Class	Class C

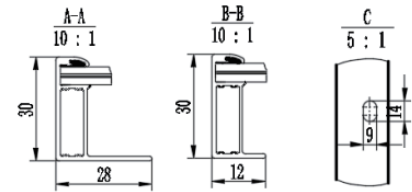
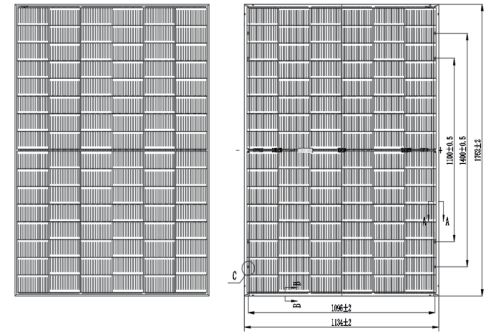
TEMP CHARACTERISTICS

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

PACKING CONFIGURATION

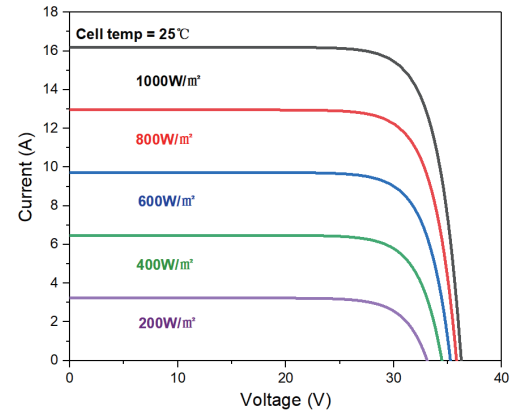
Container	40'HC
Pieces per Pallet	36 pcs
Packaging box Size	1819×1145×1260mm
Pieces per Container	936 pcs

TECHNICAL DRAWING

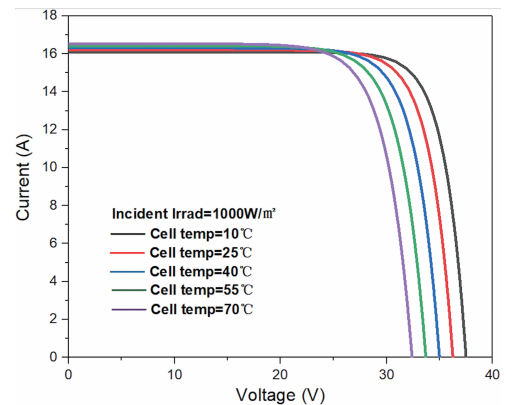


I-V CURVE

I-V characteristics at different irradiance (SP-N16B/96H450W)



I-V characteristics at different temperatures (SP-N16B/96H450W)



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