



SOLAR N PLUS

SP-N16B/96HG

SIRIUS

TOPcon Bifacial

435-455W



HIGHER EFFICIENCY



LOWER TEMPERATURE COEFFICIENT



LOW ATTENUATION, LONG WARRANTY



HIGHER BIFACIALITY

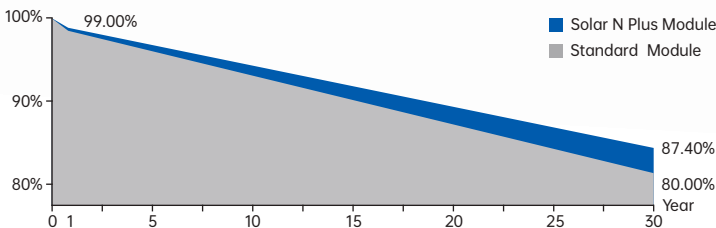
WARRANTY



15 YEARS Guarantee on product material and workmanship



30 YEARS Linear power output warranty



INSURANCE



中国平安
PING AN

CERTIFICATION



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

435-455W SP-N16B/96HG

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	435	440	445	450	455
Power Tolerance	W			0~+5		
Maximum Power Voltage (V _m)	V	29.54	29.72	29.90	30.08	30.26
Maximum Power Current (I _m)	A	14.73	14.81	14.89	14.97	15.04
Open Circuit Voltage (V _{oc})	V	34.49	34.67	34.85	35.03	35.21
Short Circuit Current (I _{sc})	A	15.90	15.95	16.00	16.05	16.10
Module Efficiency (η _m)	%	21.8	22.0	22.3	22.5	22.8

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	327	331	335	338	342
Maximum Power Voltage (V _m)	V	27.51	27.68	27.88	27.96	28.18
Maximum Power Current (I _m)	A	11.89	11.96	12.02	12.09	12.14
Open Circuit Voltage (V _{oc})	V	32.77	32.94	33.11	33.28	33.45
Short Circuit Current (I _{sc})	A	12.84	12.88	12.92	12.96	13.00

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

REAR SIDE POWER GAIN

5%	Max Power	457W	462W	467W	473W	478W
	Efficiency	22.86%	23.12%	23.38%	23.65%	23.91%
15%	Max Power	500W	506W	512W	518W	523W
	Efficiency	25.04%	25.32%	25.61%	25.90%	26.19%
25%	Max Power	544W	550W	556W	563W	569W
	Efficiency	27.21%	27.53%	27.84%	28.15%	28.46%

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	1762×1134×30mm
Weight	20.9kg
Number of Cells	96 (6x16)
Front Glass	1.6mm AR-coating heat-strengthened glass
Rear Glass	1.6mm heat-strengthened glass
Frame	Anodized aluminum alloy, silver color
Junction Box	IP68
Output Cables	4.0mm ² , 300mm or customized length
Connector	MC4 Compatible

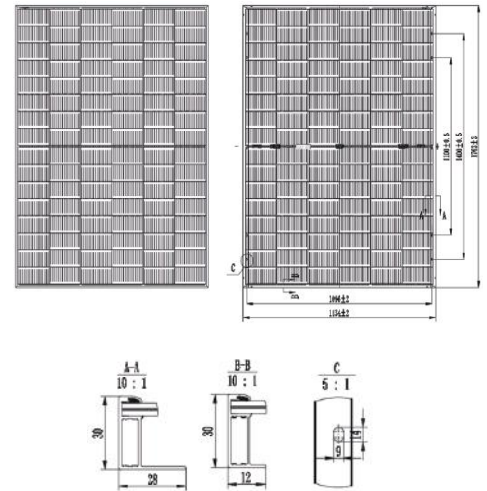
APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
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

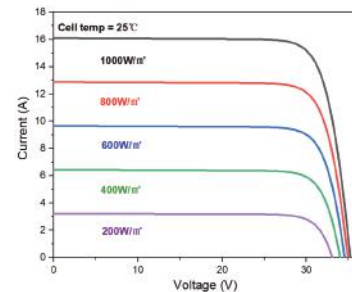
Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of P _{max}	-0.29%/°C
Temperature Coefficient of V _{oc}	-0.25%/°C
Temperature Coefficient of I _{sc}	+0.045%/°C

TECHNICAL DRAWING

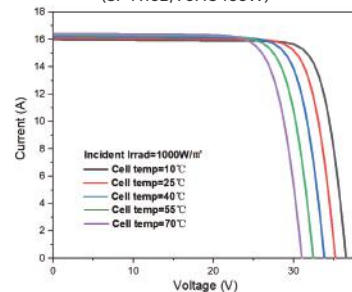


I-V CURVE

I-V characteristics at different irradiance (SP-N16B/96HG455W)



I-V characteristics at different temperatures (SP-N16B/96HG455W)



PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	36 pcs
Packaging box Size	1790×1150×1255mm
Pieces per Container	936 pcs



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