



SOLAR N PLUS

SP-N16B/132HG

N-TYPE Bifacial 600-640W



**HIGHER
EFFICIENCY**



**LOWER TEMPERATURE
COEFFICIENT**



**LOW ATTENUATION,
LONG WARRANTY**



**HIGHER
BIFACIALITY**

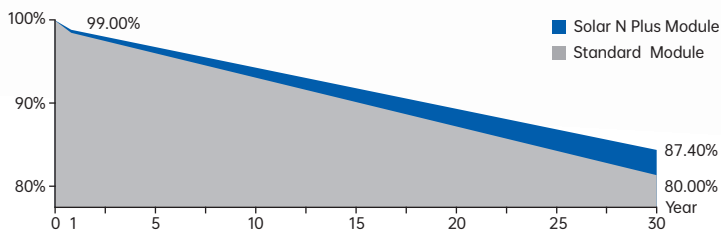
WARRANTY



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

600-640W

SP-N16B/132HG

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	600	605	610	615	620	625	630	635	640
Power Tolerance	W	0~+5								
Maximum Power Voltage (Vm)	V	40.16	40.31	40.46	40.60	40.74	40.88	41.02	41.17	41.32
Maximum Power Current (Im)	A	14.94	15.01	15.08	15.15	15.22	15.29	15.36	15.43	15.49
Open Circuit Voltage (Voc)	V	48.28	48.48	48.68	48.88	49.08	49.28	49.48	49.68	49.88
Short Circuit Current (Isc)	A	15.84	15.90	15.96	16.02	16.08	16.14	16.2	16.26	16.32
Module Efficiency (ηm)	%	22.2	22.4	22.6	22.8	23.0	23.1	23.3	23.5	23.7

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	453	457	461	465	469	473	477	481	485
Maximum Power Voltage (Vm)	V	37.6	37.8	38.0	38.2	38.4	38.7	38.9	39.1	39.3
Maximum Power Current (Im)	A	12.05	12.09	12.14	12.17	12.21	12.24	12.27	12.3	12.33
Open Circuit Voltage (Voc)	V	45.8	46.0	46.2	46.4	46.6	46.8	47.0	47.2	47.4
Short Circuit Current (Isc)	A	12.69	12.72	12.75	12.78	12.81	12.84	12.87	12.90	12.93

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

REAR SIDE POWER GAIN

5%	Max Power	630	635	641	646	651	656	662	667	672
	Efficiency	23.32%	23.52%	23.71%	23.91%	24.10%	24.29%	24.49%	24.68%	24.88%
15%	Max Power	690	696	702	707	713	719	725	730	736
	Efficiency	25.54%	25.76%	25.97%	26.18%	26.40%	26.61%	26.82%	27.03%	27.25%
25%	Max Power	750	756	763	769	775	781	788	794	800
	Efficiency	27.77%	28.00%	28.23%	28.46%	28.69%	28.92%	29.15%	29.39%	29.62%

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2382×1134×30mm
Weight	33.8kg
Number of Cells	132 (6×22)
Front Glass	2.0mm AR-coating heat-strengthened glass
Rear Glass	2.0mm heat-strengthened glass
Frame	Glass fiber reinforced polyured composite frame, black color
Junction Box	IP68
Output Cables	4.0mm², 300mm or customized length
Connector	MC4 Compatible

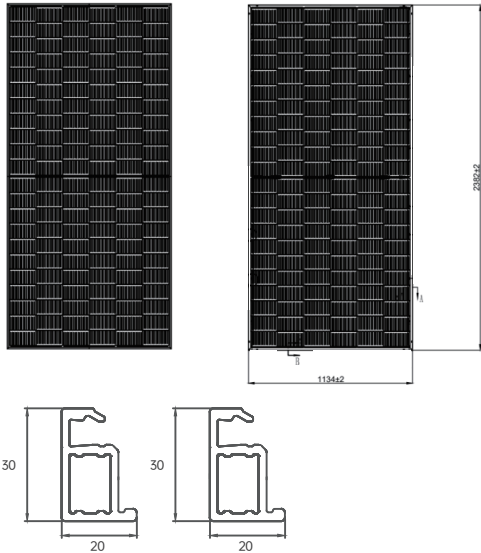
APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Operating Temperature	-40℃ ~ +85℃
Mechanical Load	5400Pa/2400Pa
Hail Test	25mm diameter hail at 23m/s
Bifaciality	80±5%
Application Rating	Class A

TEMP CHARACTERISTICS

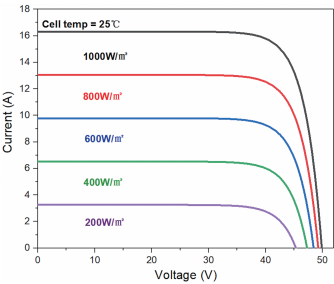
Nominal Module Operating Temperature	42±2℃
Temperature Coefficient of Pmax	-0.29%/℃
Temperature Coefficient of Voc	-0.25%/℃
Temperature Coefficient of ISC	+ 0.045%/℃

TECHNICAL DRAWING

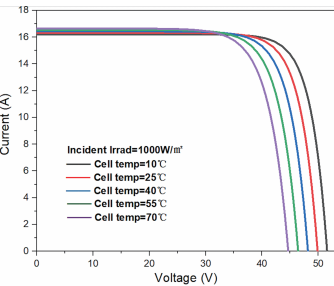


I-V CURVE

I-V characteristics at different irradiance ((SP-N16B/132HG640W))



I-V characteristics at different temperatures (SP-N16B/132HG640W)



PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	37 pcs
Packaging box Size	2439×1145×1260mm
Pieces per Container	740 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

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