



SP-N16B/132HG

N-TYPE Bifacial 610-630W

- HIGHER EFFICIENCY
- LOWER TEMPERATURE COEFFICIENT
- LOW ATTENUATION, LONG WARRANTY
- HIGHER BIFACIALITY

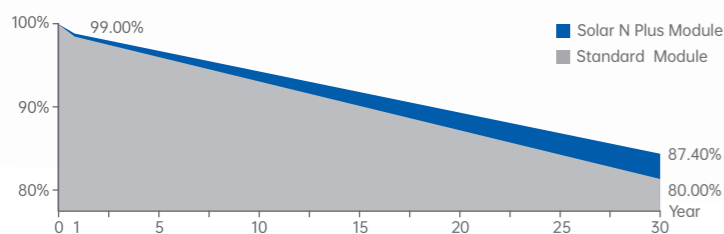
WARRANTY

15 YEARS

Guarantee on product material and workmanship

30 YEARS

Linear power output warranty



Unleash the Power of N-type
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INSURANCE



CERTIFICATION



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

610-630W SP-N16B/132HG

ELECTRICAL CHARACTERISTICS (STC)

	W	610	615	620	625	630
Maximum Power (Pm)	W	610	615	620	625	630
Power Tolerance	W	0~+5				
Maximum Power Voltage (Vm)	V	40.46	40.60	40.74	40.88	41.02
Maximum Power Current (Im)	A	15.08	15.15	15.22	15.29	15.36
Open Circuit Voltage (Voc)	V	48.68	48.88	49.08	49.28	49.48
Short Circuit Current (Isc)	A	15.96	16.02	16.08	16.14	16.2
Module Efficiency (ηm)	%	22.6	22.8	23.0	23.1	23.3

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

ELECTRICAL CHARACTERISTICS (NMOT)

	W	461	465	469	473	477
Maximum Power (Pm)	W	461	465	469	473	477
Maximum Power Voltage (Vm)	V	38.0	38.2	38.4	38.7	38.9
Maximum Power Current (Im)	A	12.14	12.17	12.21	12.24	12.27
Open Circuit Voltage (Voc)	V	46.1	46.4	46.6	46.8	47.0
Short Circuit Current (Isc)	A	12.76	12.78	12.81	12.84	12.87

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

REAR SIDE POWER GAIN

	Max Power	641W	646W	651W	656W	662W
5%	Efficiency	24.79%	25.00%	25.20%	25.40%	25.61%
	Max Power	702W	707W	713W	719W	725W
15%	Efficiency	27.16%	27.38%	27.60%	27.82%	28.05%
	Max Power	763W	769W	775W	781W	788W
25%	Efficiency	29.52%	29.76%	30.00%	30.24%	30.48%

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2382×1134×30mm
Weight	33kg
Number of Cells	132 (6×22)
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	4.0mm ² , 300mm or customized length
Connector	MC4 Compatible

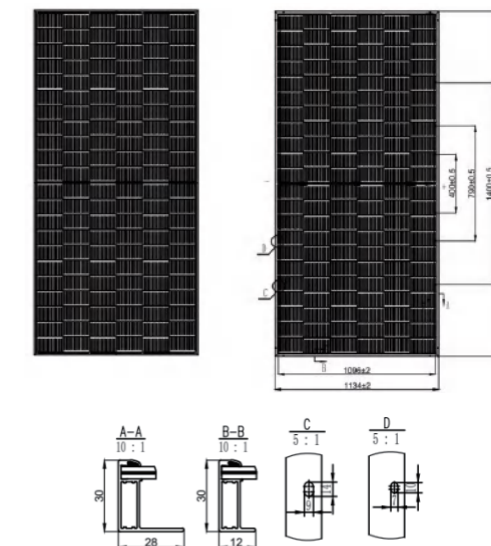
APPLICATION CONDITIONS

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

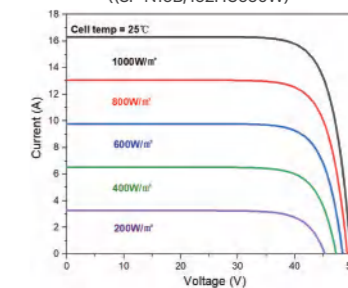
Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of ISC	+0.045%/°C

TECHNICAL DRAWING

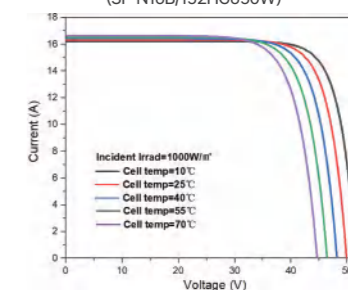


I-V CURVE

I-V characteristics at different irradiance ((SP-N16B/132HG630W))



I-V characteristics at different temperatures ((SP-N16B/132HG630W))



PACKING CONFIGURATION

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

Solar N Plus reserves the sole right of interpretation.
Version No.20241203V3.2

Accessible Sunshine for All
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SOLAR CELL

TOP-CLASS N-TYPE TOPCON CELLS FOR SUSTAINABLE ENERGY SOLUTIONS

At Solar N Plus, we understand that our customers want solar products that not only perform well but also offer long-term value.

That's why we take great pride in producing PV cells and modules that meet and exceed industry standards for efficiency and reliability.



Higher cell conversion efficiency



Low temperature coefficient



Low light-induced degradation



Excellent power generation performance under low irradiation

STRICT QUALITY CONTROL TO ENSURE PRODUCT EXCELLENCE

Solar N Plus takes pride in its commitment to product excellence, and achieves through a comprehensive certification system. Every step of our production process undergoes rigorous testing, ensuring that our solar products meet the highest quality standards. We partner with globally recognized certification organizations, renowned for their stringent criteria and industry expertise.

These authoritative certifications provide a deal of guarantees, assuring customers of the reliability and superior quality of Solar N Plus products. We understand the importance of stability and long-term returns for our customers, which is why our meticulous certification process is designed to protect their investment.

Based on an excellent management system, Solar N Plus has received certifications for Quality Management System (ISO 9001: 2015), Environment Management System (ISO 14001: 2015), and Occupational Health and Safety Management System (ISO 45001: 2018), which demonstrates not only our healthy company system but also the trustworthy product quality.

