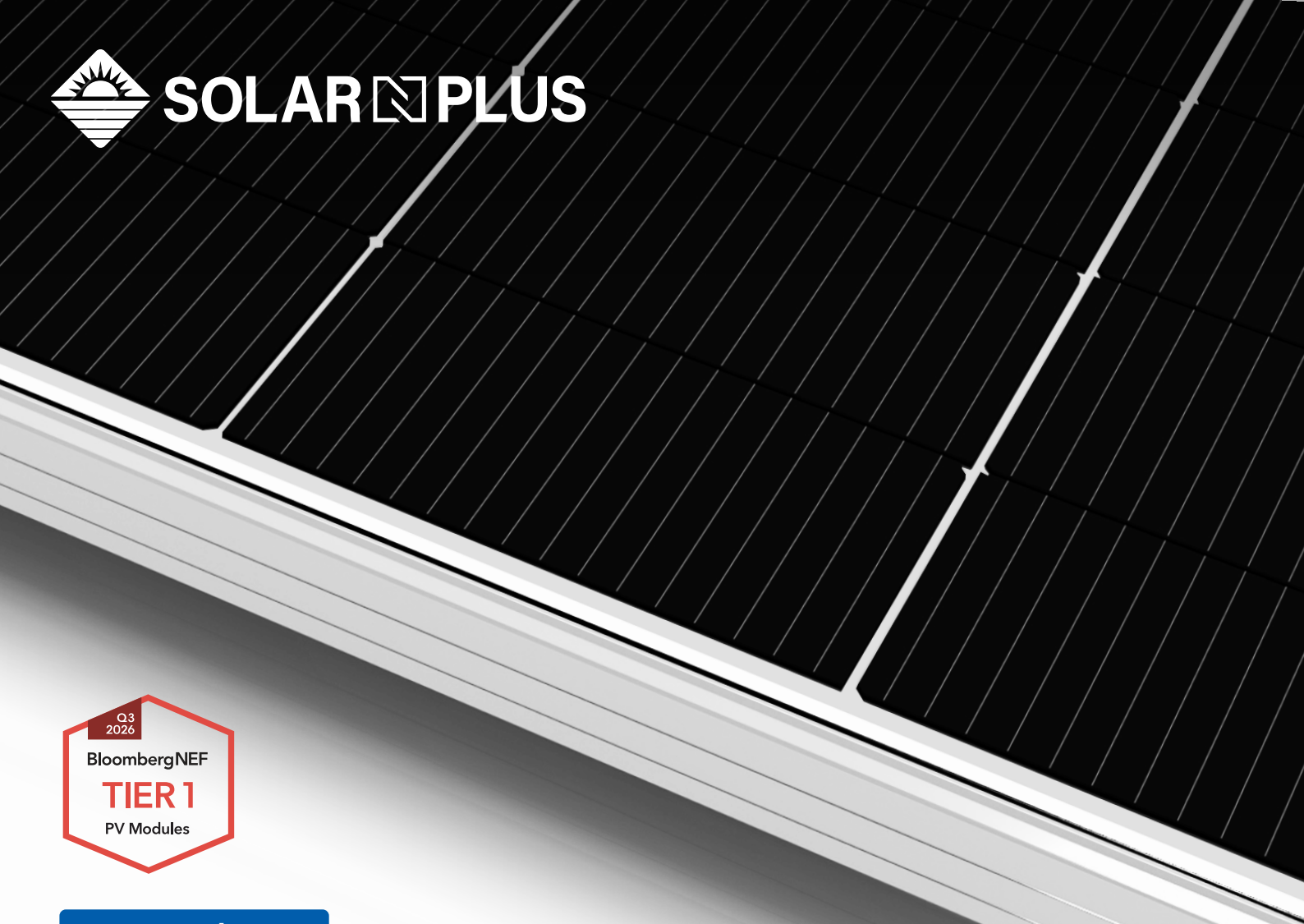
SOLAR N PLUS



Q3 2026
BloombergNEF
TIER 1
PV Modules

SP-N16B/96HG

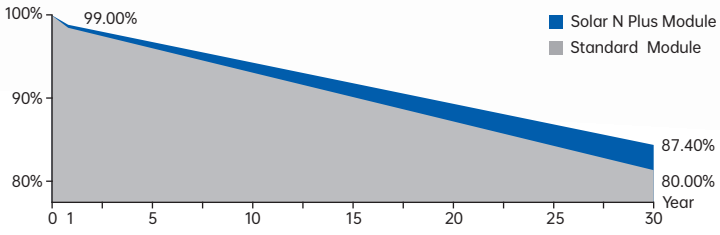
N-TYPE Bifacial 435-465W

- 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

Ariel Re 中国平安 PING AN

CERTIFICATION

TUVNORD Type Tested CE ISO

- IEC: 61215-2021
- IEC: 61730-2023
- ISO 9001: 2015/quality management system
- ISO 14001: 2015/environment management system
- ISO 45001: 2018/occupation health safety management system

435-465W SP-N16B/96HG

Q3 2026 BloombergNEF TIER 1 PV Modules

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	435	440	445	450	455	460	465
Power Tolerance	W				0~+5			
Maximum Power Voltage (Vm)	V	29.0	29.2	29.4	29.6	29.8	30.0	30.2
Maximum Power Current (Im)	A	15.0	15.07	15.14	15.20	15.27	15.33	15.40
Open Circuit Voltage (Voc)	V	35.05	35.25	35.45	35.65	35.85	36.05	36.25
Short Circuit Curren (Isc)	A	15.83	15.9	15.96	16.02	16.08	16.14	16.2
Module Efficiency (ηm)	%	21.8	22.0	22.3	22.5	22.8	23.0	23.3

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	331	335	338	342	345	348	352
Maximum Power Voltage (Vm)	V	27.32	27.52	27.72	27.92	28.12	28.32	28.52
Maximum Power Current (Im)	A	12.14	12.17	12.21	12.24	12.27	12.3	12.33
Open Circuit Voltage (Voc)	V	32.77	32.94	33.11	33.28	33.45	33.62	33.79
Short Circuit Current (Isc)	A	12.76	12.78	12.81	12.84	12.87	12.90	12.93

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

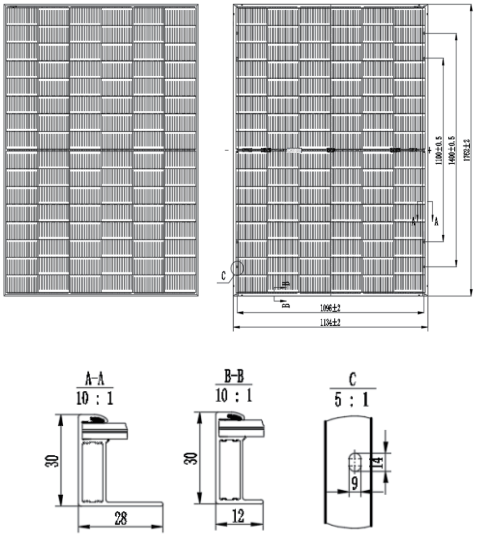
REAR SIDE POWER GAIN

5%	Max Power	457	462	467	473	478	483	488
	Efficiency	22.86%	23.12%	23.38%	23.65%	23.91%	24.17%	24.44%
15%	Max Power	500	506	512	518	523	529	535
	Efficiency	25.04%	25.32%	25.61%	25.90%	26.19%	26.48%	26.76%
25%	Max Power	544	550	556	563	569	575	581
	Efficiency	27.21%	27.53%	27.84%	28.15%	28.46%	28.78%	29.09%

MECHANICAL SPECIFICATIONS

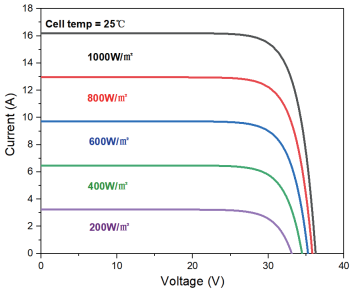
External Dimension (L×W×H)	1762×1134×30mm
Weight	24kg
Number of Cells	96 (6x16)
Front Glass	2.0mm AR-coating heat-strengthened glass
Rear Glass	2.0mm heat-strengthened glass
Frame	Anodized aluminum alloy, silver color
Junction Box	IP68
Output Cables	4.0mm², 300mm or customized length
Connector	MC4 Compatible

TECHNICAL DRAWING

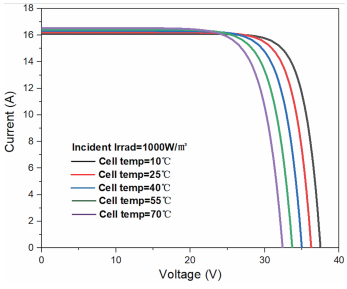


I-V CURVE

I-V characteristics at different irradiance (SP-N16B/96HG465W)



I-V characteristics at different temperatures (SP-N16B/96HG465W)



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%/℃

PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	37 pcs
Packaging box Size	1789×1145×1260mm
Pieces per Container	962 pcs

SOLAR N PLUS NEW ENERGY TECHNOLOGY CO., LTD

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Solar N Plus reserves the sole right of interpretation.

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