



SOLAR N PLUS

SP-N16/156HG

N-TYPE Bifacial 620-650W



HIGHER
EFFICIENCY



LOWER TEMPERATURE
COEFFICIENT



LOW ATTENUATION,
LONG WARRANTY



HIGHER
BIFACIALITY

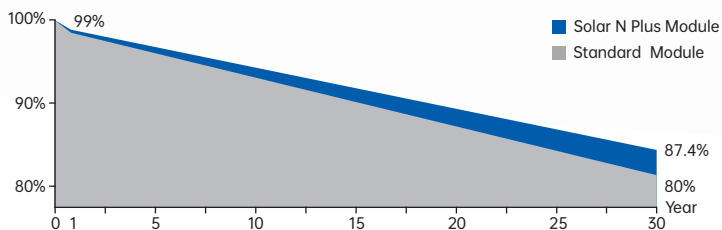
WARRANTY



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

620-650W

SP-N16/156HG

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	620	625	630	635	640	645	650
Power Tolerance	W	0~+5						
Maximum Power Voltage (Vm)	V	48.56	48.76	48.96	49.16	49.36	49.56	49.77
Maximum Power Current (Im)	A	12.77	12.82	12.87	12.92	12.97	13.02	13.06
Open Circuit Voltage (Voc)	V	56.65	56.85	57.05	57.25	57.45	57.65	57.85
Short Circuit Current (Isc)	A	13.50	13.55	13.60	13.65	13.70	13.75	13.79
Module Efficiency (ηm)	%	22.2	22.4	22.5	22.7	22.9	23.1	23.3

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	466	470	474	478	482	486	490
Maximum Power Voltage (Vm)	V	44.51	44.71	44.91	45.11	45.31	45.51	45.71
Maximum Power Current (Im)	A	10.48	10.52	10.56	10.60	10.64	10.68	10.72
Open Circuit Voltage (Voc)	V	53.54	53.74	53.94	54.14	54.34	54.54	54.73
Short Circuit Current (Isc)	A	10.86	10.92	10.96	11.00	11.04	11.08	11.12

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

REAR SIDE POWER GAIN

5%	Max Power	651	656	662	667	672	677	683
	Efficiency	23.29%	23.48%	23.66%	23.85%	24.04%	24.23%	24.42%
15%	Max Power	713	719	725	730	736	742	748
	Efficiency	25.51%	25.71%	25.92%	26.12%	26.33%	26.54%	26.74%
25%	Max Power	775	781	788	794	800	806	813
	Efficiency	27.73%	27.95%	28.17%	28.40%	28.62%	28.84%	29.07%

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2465×1134×30mm
Weight	34kg
Number of Cells	156 (6×26)
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	4mm², 300mm or customized length
Connector	MC4 Compatible

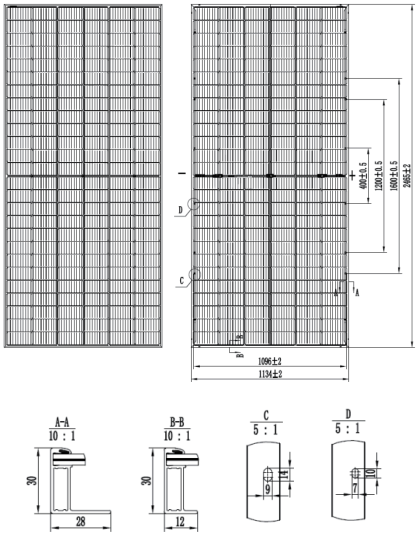
APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
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

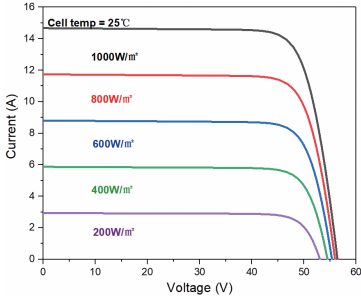
Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of ISC	0.045%/°C

TECHNICAL DRAWING

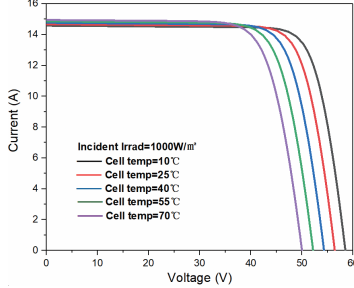


I-V CURVE

I-V characteristics at different irradiance (SP-N16/156HG650W)



I-V characteristics at different temperatures (SP-N16/156HG650W)



PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	37 pcs
Packaging box Size	2522×1145×1260mm
Pieces per Container	592 pcs



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