



SOLAR N PLUS

SP-N16/156HG

N-TYPE Bifacial 620-650W



HIGHER EFFICIENCY



LOWER TEMPERATURE COEFFICIENT



LOW ATTENUATION, LONG WARRANTY



HIGHER BIFACIALITY

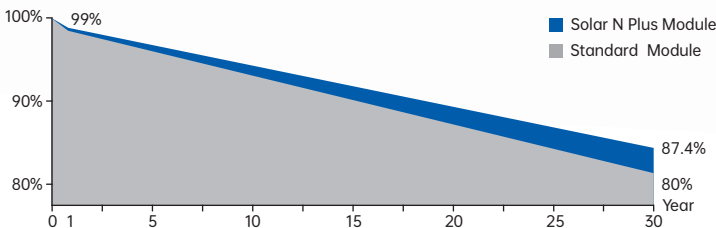
WARRANTY



15 YEARS Guarantee on product material and workmanship



30 YEARS Linear power output warranty



INSURANCE



中国平安
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	651W	656W	662W	667W	672W	677W	683W
	Efficiency	23.29%	23.48%	23.66	23.85%	24.04%	24.23%	24.42%
15%	Max Power	713W	719W	725W	730W	736W	742W	748W
	Efficiency	25.51%	25.71%	25.92%	26.12%	26.33%	26.54%	26.74%
25%	Max Power	775W	781W	788W	794W	800W	806W	813W
	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	4mm ² , 300mm or customized length
Connector	MC4 Compatible

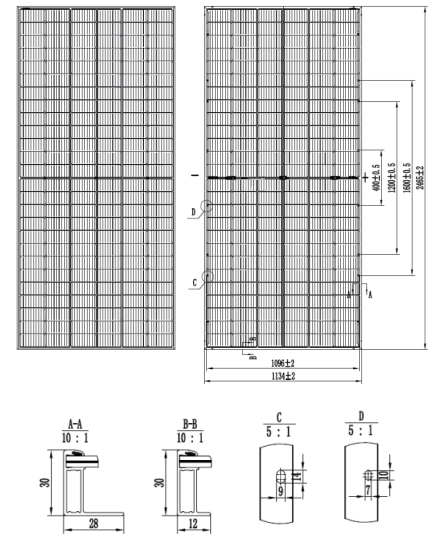
APPLICATION CONDITIONS

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

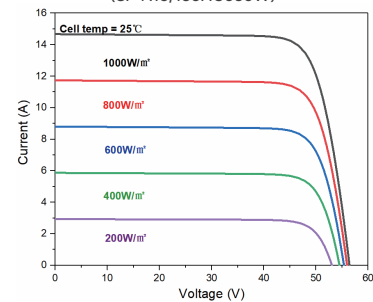
Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of ISC	0.045%/°C

TECHNICAL DRAWING

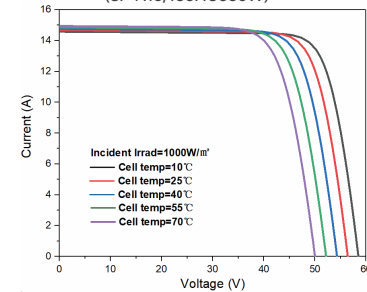


I-V CURVE

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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