



SOLAR N PLUS

SP-N16/144HG

TOPcon Bifacial 570-600W



HIGHER EFFICIENCY



LOWER TEMPERATURE COEFFICIENT



LOW ATTENUATION, LONG WARRANTY



HIGHER BIFACIALITY

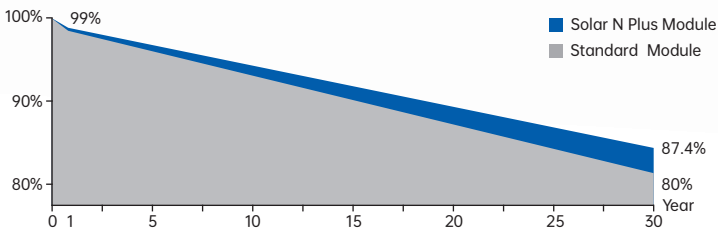
WARRANTY



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

570-600W SP-N16/144HG

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	570	575	580	585	590	595	600
Power Tolerance	W	0 ~ +5						
Maximum Power Voltage (V _m)	V	44.75	44.95	45.15	45.35	45.55	45.75	45.95
Maximum Power Current (I _m)	A	12.74	12.79	12.85	12.90	12.96	13.01	13.06
Open Circuit Voltage (V _{oc})	V	52.2	52.4	52.6	52.8	53.0	53.2	53.4
Short Circuit Current (I _{sc})	A	13.47	13.52	13.57	13.62	13.67	13.72	13.77
Module Efficiency (η _m)	%	22.1	22.3	22.5	22.7	22.8	23.0	23.2

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	430	433	437	441	445	449	453
Maximum Power Voltage (V _m)	V	41.18	41.36	41.54	41.72	41.90	42.08	42.26
Maximum Power Current (I _m)	A	10.42	10.47	10.52	10.57	10.62	10.67	10.72
Open Circuit Voltage (V _{oc})	V	49.33	49.53	49.73	49.93	50.13	50.33	50.52
Short Circuit Current (I _{sc})	A	10.81	10.86	10.91	10.96	11.01	11.06	11.11

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

REAR SIDE POWER GAIN

5%	Max Power	599W	604W	609W	614W	620W	625W	630W
	Efficiency	23.17%	23.37%	23.57%	23.78%	23.98%	24.18%	24.39%
15%	Max Power	656W	661W	667W	673W	679W	684W	690W
	Efficiency	25.37%	25.60%	25.82%	26.04%	26.27%	26.49%	26.71%
25%	Max Power	713W	719W	725W	731W	738W	744W	750W
	Efficiency	27.58%	27.82%	28.07%	28.31%	28.55%	28.79%	29.03%

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2278×1134×30mm
Weight	31.5kg
Number of Cells	144 (6×24)
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

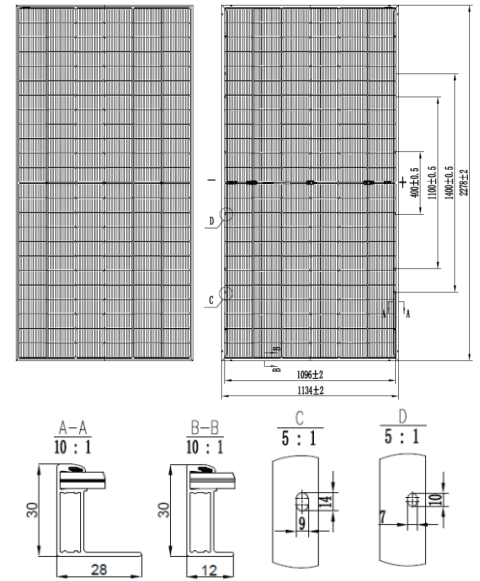
APPLICATION CONDITIONS

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

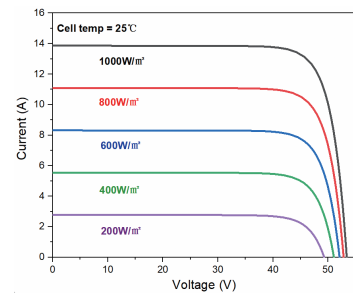
Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of P _{max}	-0.29%/°C
Temperature Coefficient of V _{oc}	-0.25%/°C
Temperature Coefficient of I _{sc}	0.045%/°C

TECHNICAL DRAWING

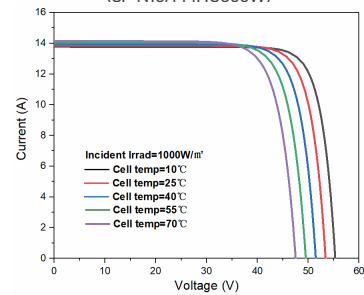


I-V CURVE

I-V characteristics at different irradiance (SP-N16/144HG600W)



I-V characteristics at different temperatures (SP-N16/144HG600W)



PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	37 pcs
Packaging box Size	2335×1145×1260mm
Pieces per Container	740 pcs



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