

### ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	600
Power Tolerance	W	0 ~ +5
Maximum Power Voltage (Vm)	V	45.95
Maximum Power Current (Im)	A	13.06
Open Circuit Voltage (Voc)	V	53.4
Short Circuit Current (Isc)	A	13.77
Module Efficiency (ηm)	%	23.2

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

### ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	453
Maximum Power Voltage (Vm)	V	42.26
Maximum Power Current (Im)	A	10.72
Open Circuit Voltage (Voc)	V	50.52
Short Circuit Current (Isc)	A	11.11

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

### REAR SIDE POWER GAIN

5%	Max Power	630
	Efficiency	24.39%
15%	Max Power	690
	Efficiency	26.71%
25%	Max Power	750
	Efficiency	29.03%

### MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2278×1134×30mm
Weight	31.5kg
Number of Cells	144 (6x24)
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

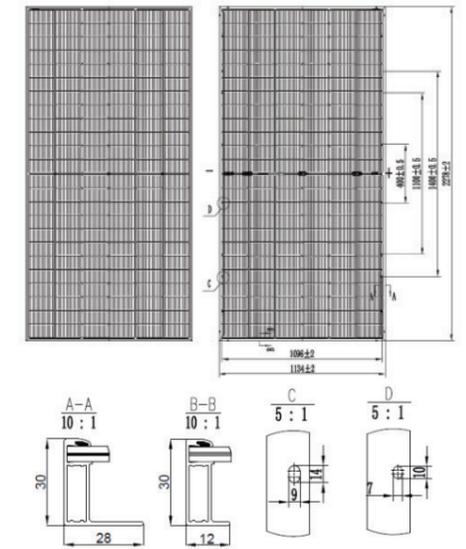
### APPLICATION CONDITIONS

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

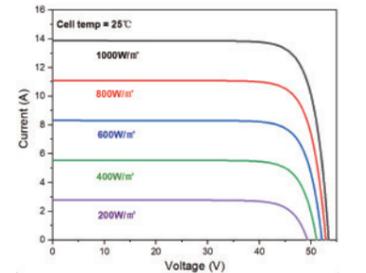
Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of ISC	0.045%/°C

### TECHNICAL DRAWING

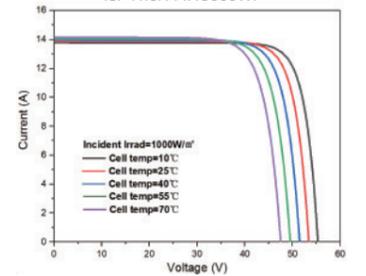


### I-V CURVE

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



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

Solar N Plus reserves the sole right of interpretation.  
Version No.20250822

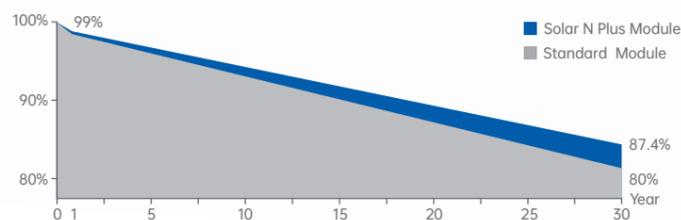
## SP-N16/144HG

# N-TYPE Bifacial 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



### CERTIFICATION



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