

SP-N16/144HG



SIRIUS

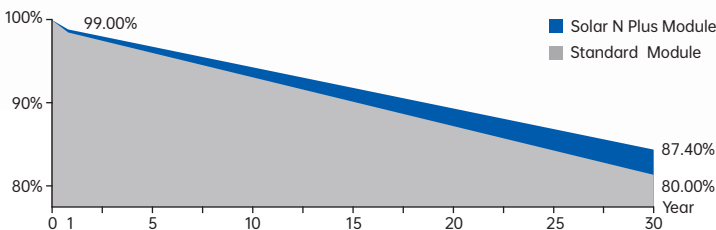
TOPcon Bifacial

560-580W

-  **HIGHER EFFICIENCY**
-  **LOWER TEMPERATURE COEFFICIENT**
-  **LOW ATTENUATION, LONG WARRANTY**
-  **HIGHER BIFACIALITY**

WARRANTY

-  **12 YEARS** Guarantee on product material and workmanship
-  **30 YEARS** Linear power output warranty



CERTIFICATION



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

560-580W SP-N16/144HG

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	560	565	570	575	580
Power Tolerance	W	0 ~ +5				
Maximum Power Voltage (V _m)	V	42.30	42.50	42.70	42.90	43.10
Maximum Power Current (I _m)	A	13.24	13.30	13.35	13.41	13.47
Open Circuit Voltage (V _{oc})	V	51.40	51.60	51.80	52.00	52.20
Short Circuit Current (I _{sc})	A	13.69	13.75	13.81	13.88	13.95
Module Efficiency (η _m)	%	21.70	21.90	22.10	22.30	22.50

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	424	427	431	435	439
Maximum Power Voltage (V _m)	V	40.00	40.20	40.40	40.60	40.80
Maximum Power Current (I _m)	A	10.59	10.64	10.68	10.72	10.76
Open Circuit Voltage (V _{oc})	V	48.70	48.90	49.00	49.20	49.40
Short Circuit Current (I _{sc})	A	11.04	11.09	11.14	11.19	11.24

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

REAR SIDE POWER GAIN

5%	Max Power	588W	593W	599W	604W	609W
	Efficiency	22.76%	22.97%	23.17%	23.37%	23.57%
15%	Max Power	644W	650W	656W	661W	667W
	Efficiency	24.93%	25.15%	25.37%	25.60%	25.82%
25%	Max Power	700W	706W	713W	719W	725W
	Efficiency	27.10%	27.34%	27.58%	27.82%	28.07%

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2278×1134×30mm
Weight	32.0kg
Solar Cells	144 (6x24)/16BB Mono/182×91mm
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	4.0mm ² , 300mm or customized length
Connector	MC4 Compatible

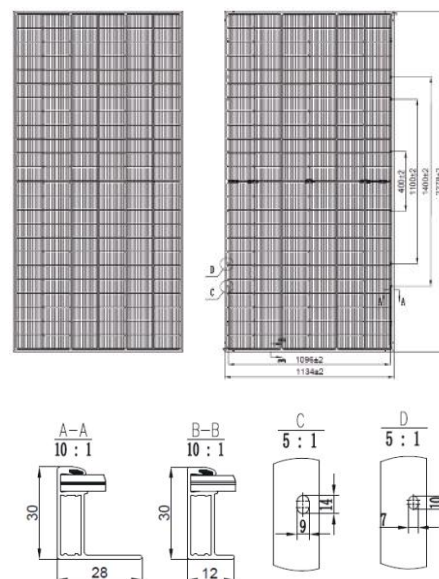
APPLICATION CONDITIONS

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

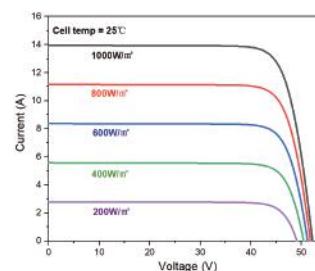
Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of P _{max}	-0.29%/°C
Temperature Coefficient of V _{oc}	-0.25%/°C
Temperature Coefficient of I _{sc}	+0.045%/°C

TECHNICAL DRAWING

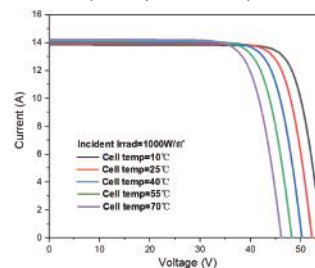


I-V CURVE

I-V characteristics at different irradiance (SP-N16/144HG580W)



I-V characteristics at different temperatures (SP-N16/144HG580W)



PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	36 pcs
Packaging box Size	2335×1140×1290mm
Pieces per Container	720 pcs



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