



SP-N16/144H

SIRIUS

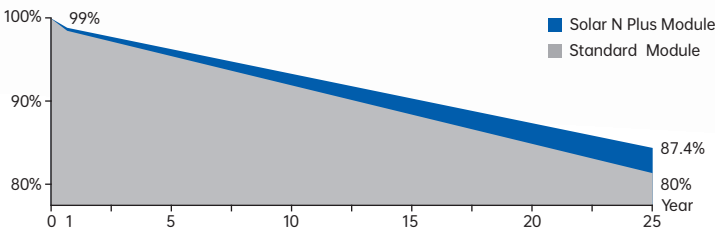
TOPcon Monofacial

570-590W

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

WARRANTY

- 12 YEARS Guarantee on product material and workmanship
- 25 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

570-590W SP-N16/144H

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	570	575	580	585	590
Power Tolerance	%	0 ~ +5				
Maximum Power Voltage (V _m)	V	42.7	42.9	43.1	43.3	43.5
Maximum Power Current (I _m)	A	13.35	13.41	13.47	13.52	13.57
Open Circuit Voltage (V _{oc})	V	51.8	52.0	52.2	52.4	52.6
Short Circuit Current (I _{sc})	A	13.81	13.88	13.95	14.02	14.09
Module Efficiency (η _m)	%	22.1	22.3	22.5	22.6	22.8

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	431	435	439	443	447
Maximum Power Voltage (V _m)	V	40.4	40.6	40.8	50.0	50.2
Maximum Power Current (I _m)	A	10.68	10.72	10.76	10.80	10.84
Open Circuit Voltage (V _{oc})	V	49.0	49.2	49.4	49.6	49.8
Short Circuit Current (I _{sc})	A	11.14	11.19	11.24	11.29	11.34

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

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2278×1134×30mm
Weight	28.3kg
Number of Cells	144 (6x24)
Glass	3.2mm AR-coating heat-strengthened glass
Frame	Anodized aluminum alloy, silver color
Junction Box	IP68
Output Cables	4mm ² , 1200mm 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
Application Rating	Class A

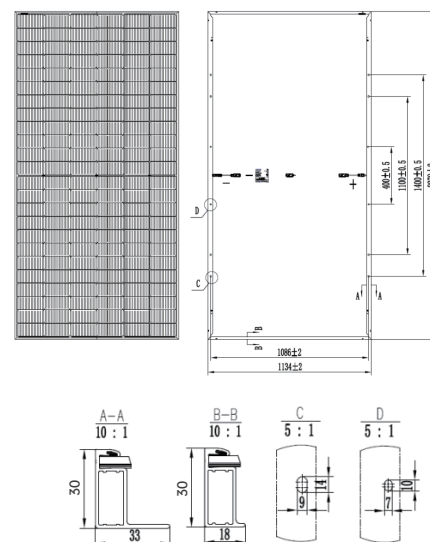
TEMP CHARACTERISTICS

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

PACKING CONFIGURATION

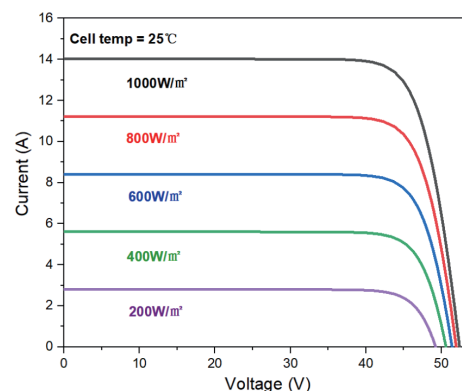
Container	40'HC
Pieces per Pallet	36 pcs
Packaging box Size	2335×1140×1290mm
Pieces per Container	720 pcs

TECHNICAL DRAWING

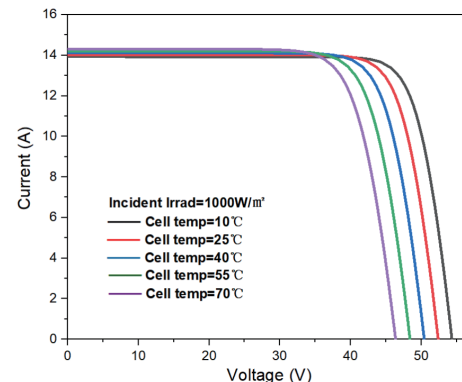


I-V CURVE

I-V characteristics at different irradiance (SP-N16/144H590W)



I-V characteristics at different temperatures (SP-N16/144H590W)



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