



SOLAR N PLUS

SP-N16/144H

TOPcon Monofacial 550-595W



HIGHER EFFICIENCY



LOWER TEMPERATURE COEFFICIENT



LOW ATTENUATION, LONG WARRANTY

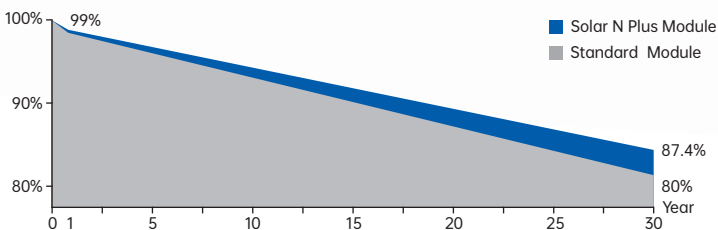
WARRANTY



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



550-595W

SP-N16/144H

TOPCON MONOFACIAL

SP-N16/144H 550W SP-N16/144H 555W SP-N16/144H 560W SP-N16/144H 565W SP-N16/144H 570W SP-N16/144H 575W SP-N16/144H 580W SP-N16/144H 585W SP-N16/144H 590W SP-N16/144H 595W

ELECTRICAL CHARACTERISTICS (STC)

	W	550	555	560	565	570	575	580	585	590	595
Maximum Power (Pmax) / tolerance ±3%	W	550	555	560	565	570	575	580	585	590	595
Power Distribution	W	0~+5									
Maximum Power Voltage (Vmp)	V	43.95	44.15	44.35	44.55	44.75	44.95	45.15	45.35	45.55	45.75
Maximum Power Current (Imp)	A	12.52	12.57	12.63	12.68	12.74	12.79	12.85	12.90	12.96	13.01
Open Circuit Voltage (Voc) / tolerance ±3%	V	51.4	51.6	51.8	52.0	52.2	52.4	52.6	52.8	53.0	53.2
Short Circuit Current (Isc) / tolerance ±4%	A	13.27	13.32	13.37	13.42	13.47	13.52	13.57	13.62	13.67	13.72
Module Efficiency (ηm)	%	21.3	21.5	21.7	21.9	22.1	22.3	22.5	22.6	22.8	23.0

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

ELECTRICAL CHARACTERISTICS (NMOT)

	W	414	418	422	426	430	433	437	441	445	449
Maximum Power (Pmax) / tolerance ±3%	W	414	418	422	426	430	433	437	441	445	449
Maximum Power Voltage (Vmp)	V	40.46	40.64	40.82	41.00	41.18	41.36	41.54	41.72	41.90	42.08
Maximum Power Current (Imp)	A	10.22	10.27	10.32	10.37	10.42	10.47	10.52	10.57	10.62	10.67
Open Circuit Voltage (Voc) / tolerance ±3%	V	48.53	48.73	48.93	49.13	49.33	49.53	49.73	49.93	50.13	50.33
Short Circuit Current (Isc) / tolerance ±4%	A	10.61	10.66	10.71	10.76	10.81	10.86	10.91	10.96	11.01	11.06

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

550-595W SP-N16/144H

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2278×1134×30mm
Weight	31.5kg
Number of Cells	144 (6x24)
Glass	3.2mm AR-coating heat-strengthened glass
Frame	Anodized aluminum alloy, silver color
Junction Box	IP68
Output Cables	4.0mm ² , 300mm or customized length
Connector	Tonglin TL-CABLE01S Pro

APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
Operating Temperature	-40°C ~ +85°C
Maximum Mechanical load	5400Pa/2400Pa
Hail Test	25mm diameter hail at 23m/s
Application Rating	Class II
Fire Safety Class	Class C

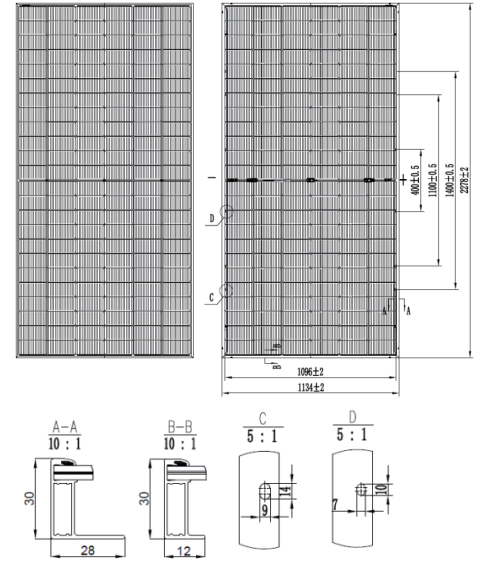
TEMP CHARACTERISTICS

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

PACKING CONFIGURATION

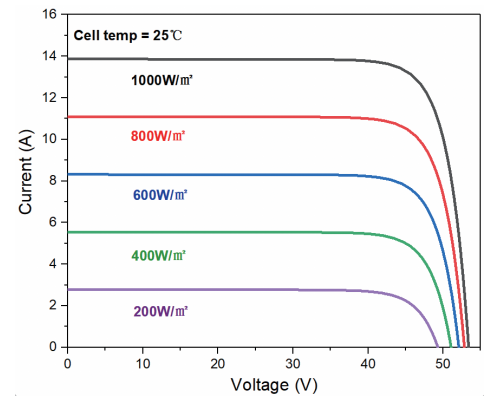
Container	40'HC
Pieces per Pallet	36 pcs
Packaging box Size	2335×1145×1260mm
Pieces per Container	720 pcs

TECHNICAL DRAWING

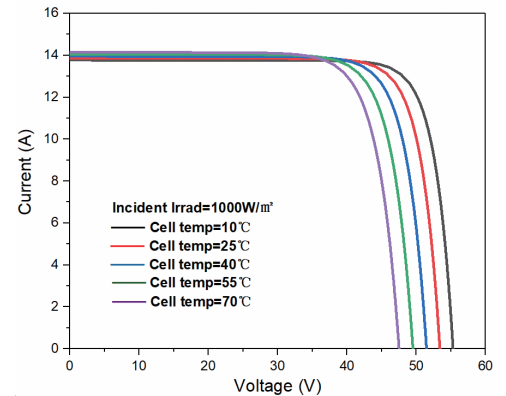


I-V CURVE

I-V characteristics at different irradiance (SP-N16/144H595W)



I-V characteristics at different temperatures (SP-N16/144H595W)



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