



SOLAR N PLUS

SP-M10/144HG

PERC Bifacial 540-560W



**HIGHER
EFFICIENCY**



**LOWER TEMPERATURE
COEFFICIENT**



**LOW ATTENUATION,
LONG WARRANTY**



**HIGHER
BIFACIALITY**

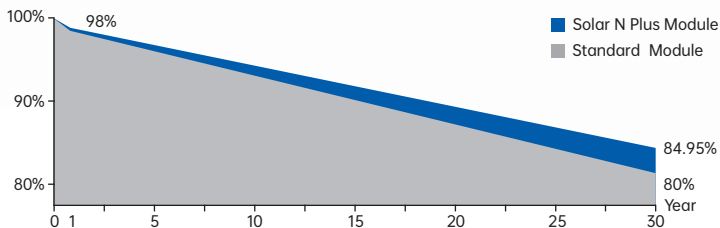
WARRANTY



Guarantee on product material
and workmanship



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

540-560W

SP-M10/144HG

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	540	545	550	555	560
Power Tolerance	W			0~ +5		
Maximum Power Voltage (Vm)	V	41.13	41.32	41.51	41.70	41.89
Maximum Power Current (Im)	A	13.13	13.19	13.25	13.31	13.37
Open Circuit Voltage (Voc)	V	49.73	49.92	50.11	50.30	50.49
Short Circuit Current (Isc)	A	13.89	13.95	14.01	14.07	14.13
Module Efficiency (ηm)	%	20.9	21.1	21.3	21.5	21.7

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	408	412	416	420	424
Maximum Power Voltage (Vm)	V	37.89	38.08	38.27	38.46	38.65
Maximum Power Current (Im)	A	10.77	10.82	10.87	10.92	10.97
Open Circuit Voltage (Voc)	V	46.63	46.82	47.01	47.2	47.39
Short Circuit Current (Isc)	A	11.19	11.25	11.31	11.37	11.43

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

REAR SIDE POWER GAIN

5%	Max Power	567W	572W	578W	583W	588W
	Efficiency	21.9%	22.2%	22.4%	22.6%	22.8%
15%	Max Power	621W	627W	633W	638W	643W
	Efficiency	24.0%	24.3%	24.5%	24.7%	24.9%
25%	Max Power	675W	681W	688W	694W	700W
	Efficiency	26.1%	26.4%	26.6%	26.9%	27.1%

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	4mm², 300mm or customized length
Connector	MC4 Compatible

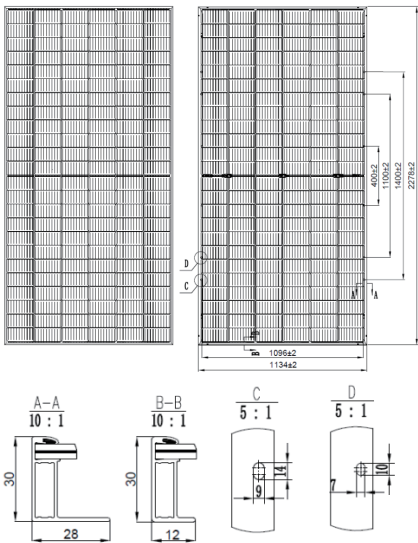
APPLICATION CONDITIONS

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	70±5%
Application Rating	Class A

TEMP CHARACTERISTICS

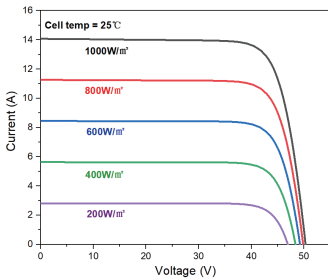
Nominal Module Operating Temperature	45±2°C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of ISC	0.05%/°C

TECHNICAL DRAWING

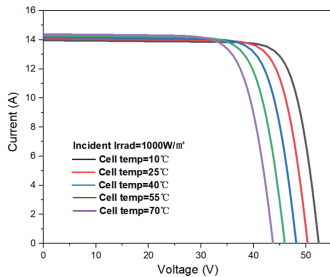


I-V CURVE

I-V characteristics at different irradiance (SP-M10/144HG560W)



I-V characteristics at different temperatures (SP-M10/144HG560W)



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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Version No.20241203V3.2