



SOLAR PLUS

SP-M10/144HG

CYGNUS

PERC Bifacial

540-560W



HIGHER EFFICIENCY



LOWER TEMPERATURE COEFFICIENT



LOW ATTENUATION, LONG WARRANTY



HIGHER BIFACIALITY

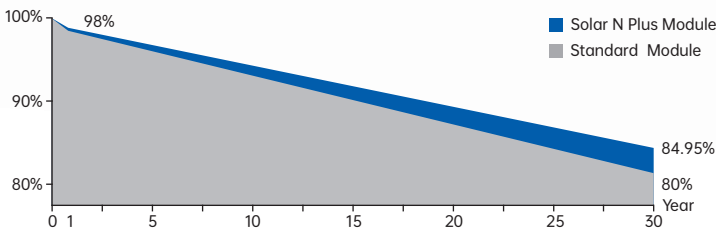
WARRANTY



15 YEARS Guarantee on product material and workmanship



30 YEARS Linear power output warranty



INSURANCE



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	47.20	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	32.0kg
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	4mm ² , 300mm or customized length
Connector	MC4 Compatible

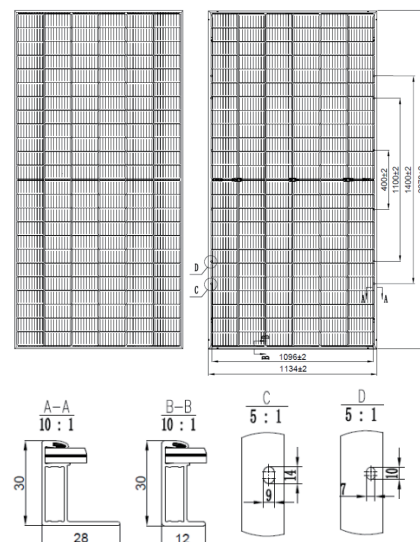
APPLICATION CONDITIONS

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	70±5%
Application Rating	Class A

TEMP CHARACTERISTICS

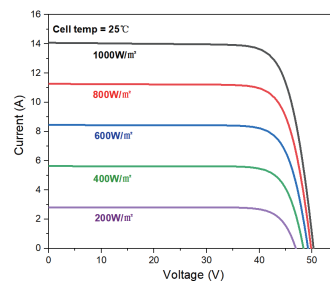
Nominal Module Operating Temperature	45±2°C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of ISC	0.05%/°C

TECHNICAL DRAWING

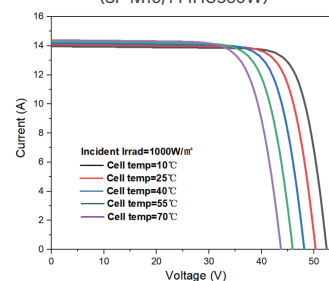


I-V CURVE

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	36 pcs
Packaging box Size	2335×1145×1260mm
Pieces per Container	720 pcs



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Version No.20240402V2.0