



SOLAR N PLUS

SP-M10/144H

PERC Monofacial 540-560W



**HIGH
POWER**



**MUTI
BUSBAR**



**HALF-CUT
CELL**



**HIGH DENSITY
ENCAPSULATION**

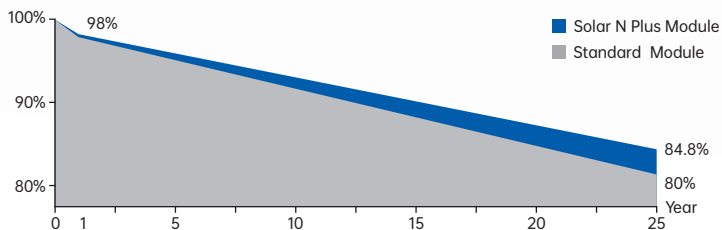
WARRANTY



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-M10/144H

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℃

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℃, wind speed=1m/s

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2278×1134×35mm
Number of Cells	144 (6x24)
Weight	28.0kg
Glass	3.2mm AR-coating 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℃ ~ +85℃
Mechanical Load	5400Pa/2400Pa
Hail Test	25mm diameter hail at 23m/s
Application Rating	Class A

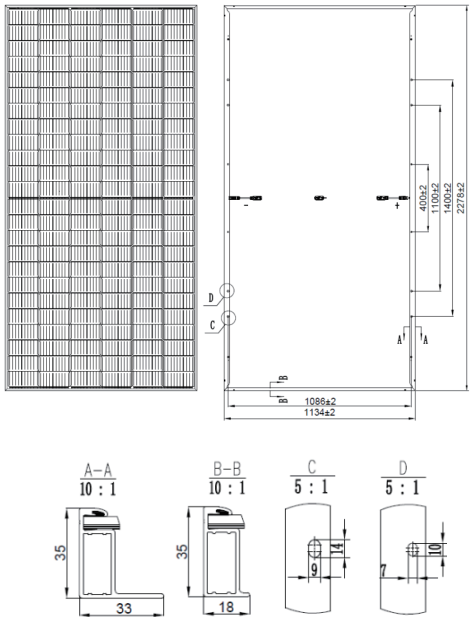
TEMP CHARACTERISTICS

Nominal Module Operating Temperature	45±2℃
Temperature Coefficient of Power	-0.35%/℃
Temperature Coefficient of Voltage	-0.28%/℃
Temperature Coefficient of Current	0.05%/℃

PACKING CONFIGURATION

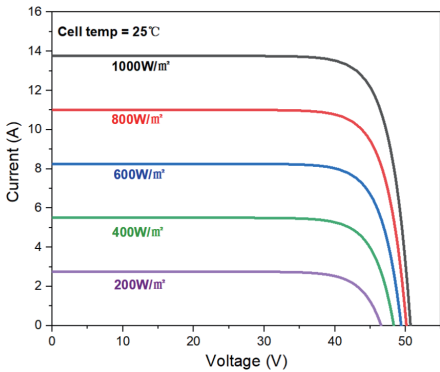
Container	40'HC
Module per box	32 Pieces
Packaging box Size	2335×1145×1260mm
Module per container	640 Pieces

TECHNICAL DRAWING

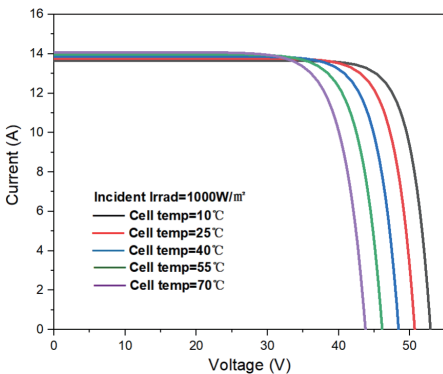


I-V CURVE

I-V characteristics at different irradiance (SP-M10/144H560W)



I-V characteristics at different temperatures (SP-M10/144H560W)



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