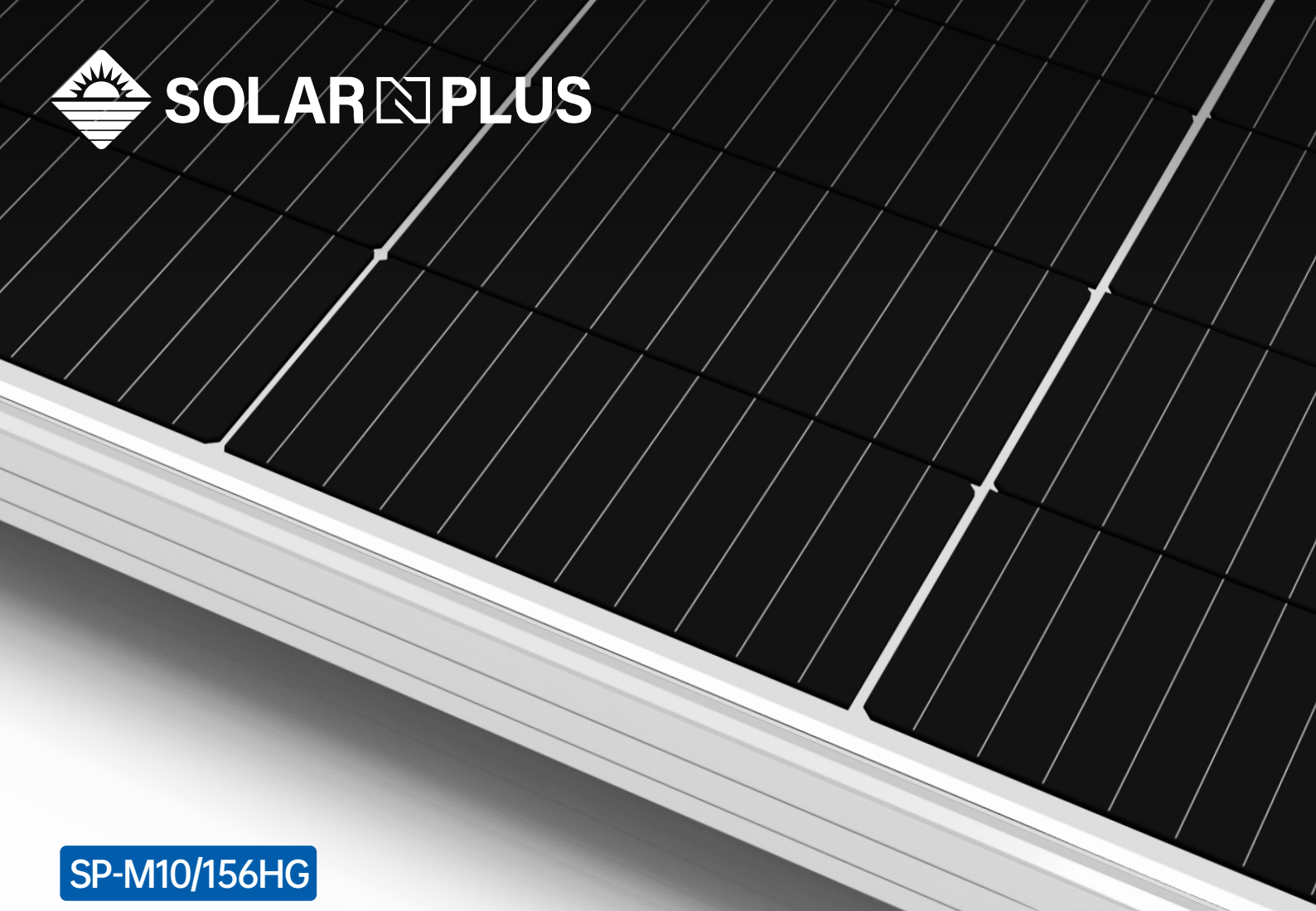
SOLAR N PLUS



SP-M10/156HG

CYGNUS

PERC Bifacial

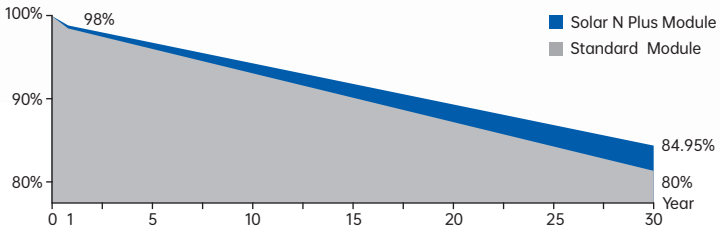
580-600W

- 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

Ariel Re

中国平安 PING AN

CERTIFICATION

TUV NORD Type Tested

CE

ISO

- ISO 9001: 2015/quality management system
- ISO 14001: 2015/environment management system
- ISO 45001: 2018/occupation health safety management system

580-600W SP-M10/156HG

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	580	585	590	595	600
Power Tolerance	W			0~+5		
Maximum Power Voltage (Vm)	V	45.1	45.25	45.4	45.55	45.7
Maximum Power Current (Im)	A	12.86	12.93	13.00	13.06	13.13
Open Circuit Voltage (Voc)	V	53.5	53.65	53.8	53.95	54.10
Short Circuit Curren (Isc)	A	13.75	13.81	13.87	13.93	13.99
Module Efficiency (ηm)	%	20.7	20.9	21.1	21.3	21.5

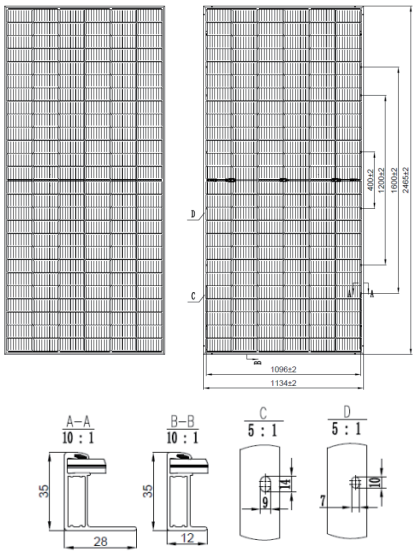
STC:AM=1.5, irradiance=1000W/m², module temperature=25℃

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	436	440	444	448	452
Maximum Power Voltage (Vm)	V	40.65	40.80	40.95	41.10	41.25
Maximum Power Current (Im)	A	10.73	10.78	10.84	10.90	10.96
Open Circuit Voltage (Voc)	V	49.15	49.30	49.45	49.60	49.75
Short Circuit Current (Isc)	A	11.35	11.41	11.47	11.53	11.59

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

TECHNICAL DRAWING

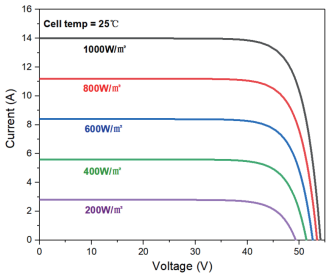


REAR SIDE POWER GAIN

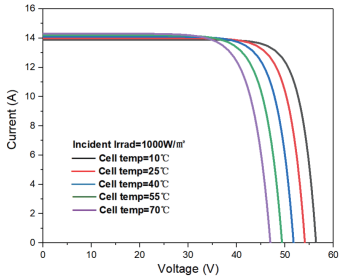
5%	Max Power	609W	614W	620W	625W	630W
	Efficiency	21.79%	21.97%	22.16%	22.35%	22.54%
15%	Max Power	667W	673W	679W	684W	690W
	Efficiency	23.86%	24.07%	24.27%	24.48%	24.68%
25%	Max Power	725W	731W	738W	744W	750W
	Efficiency	25.94%	26.16%	26.38%	26.61%	26.83%

I-V CURVE

I-V characteristics at different irradiance
(SP-M10/156HG600W)



I-V characteristics at different temperatures
(SP-M10/156HG600W)



MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2465×1134×35mm
Weight	34.6kg
Number of Cells	156 (6x26)
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℃ ~ +85℃
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℃
Temperature Coefficient of Pmax	-0.35%/℃
Temperature Coefficient of Voc	-0.28%/℃
Temperature Coefficient of ISC	0.05%/℃

PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	31 pcs
Packaging box Size	2495×1140×1290mm
Pieces per Container	558 pcs

SOLAR N PLUS NEW ENERGY TECHNOLOGY CO., LTD

No.1 Jianye road, Zhongxin Suchu Industrial Development Zone, Chuzhou City, 239000, Anhui Province, China
025-52806120
www.solarnplus.com

Solar N Plus reserves the sole right of interpretation.

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