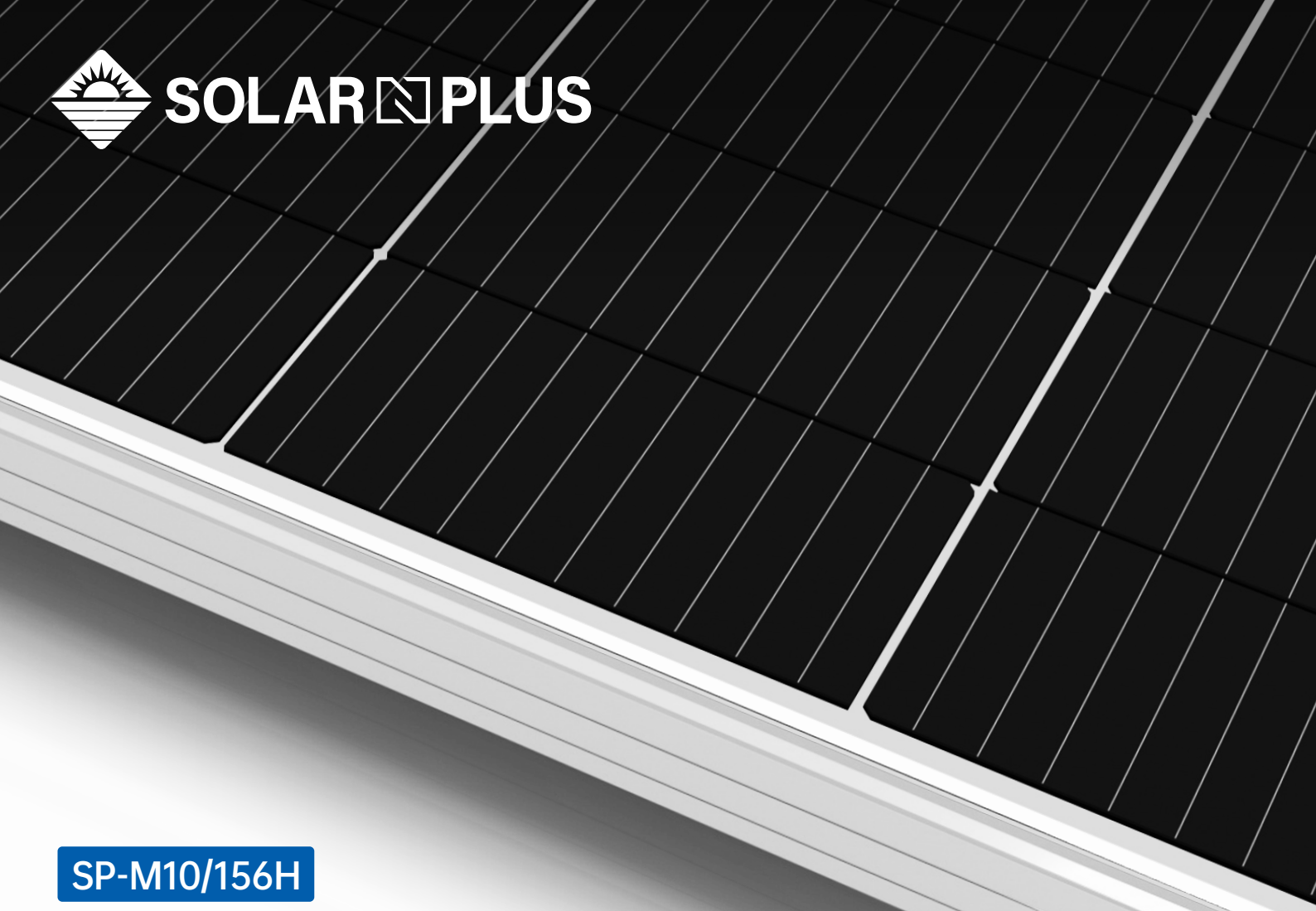
SOLAR N PLUS



SP-M10/156H

CYGNUS

PERC Monofacial

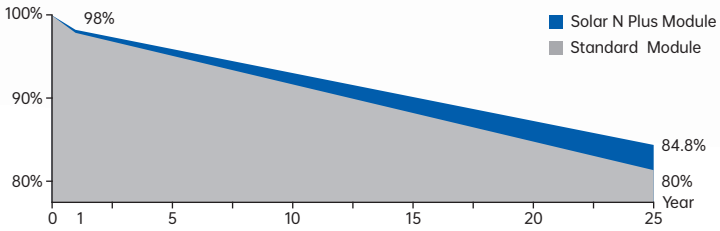
580-600W

- HIGH POWER
- MUTI BUSBAR
- HALF-CUT CELL
- HIGH DENSITY ENCAPSULATION

WARRANTY

15 YEARS Guarantee on product material and workmanship

25 YEARS Linear power output warranty



INSURANCE

Ariel Re

中国平安 PING AN

CERTIFICATION

TÜV 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-M10/156H

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	580	585	590	595	600
Power Tolerance	W			0~+5		
Maximum Power Voltage (Vm)	V	45.10	45.25	45.40	45.55	45.70
Maximum Power Current (Im)	A	12.86	12.93	13.00	13.06	13.13
Open Circuit Voltage (Voc)	V	53.50	53.65	53.80	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

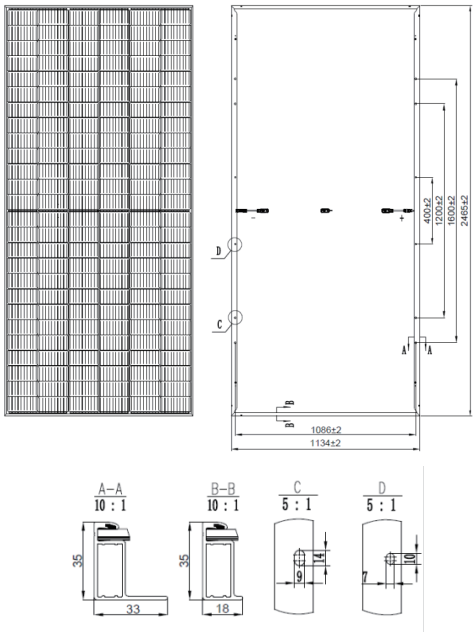
STC:AM=1.5, irradiance=1000W/m², module temperature=25℃

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

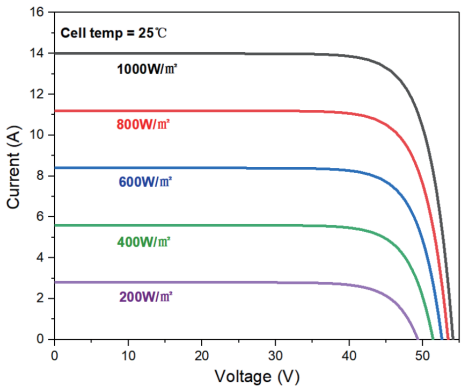


MECHANICAL SPECIFICATIONS

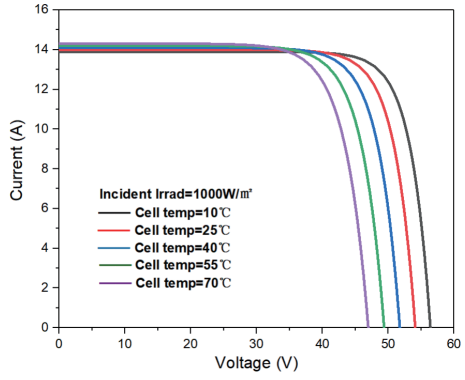
External Dimension (L×W×H)	2465×1134×35mm
Number of Cells	156 (6x26)
Weight	30.6kg
Glass	3.2mm AR-coating heat-strengthened glass
Frame	Anodized aluminum alloy, silver color
Junction Box	IP68
Output Cables	4mm², 300mm or customized length
Connector	MC4 Compatible

I-V CURVE

I-V characteristics at different irradiance
(SP-M10/156H600W)



I-V characteristics at different temperatures
(SP-M10/156H600W)



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	31 Pieces
Packaging box Size	2495×1140×1290mm
Module per container	558 Pieces

SOLAR N PLUS NEW ENERGY TECHNOLOGY CO., LTD

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Solar N Plus reserves the sole right of interpretation.

Version No.2023V2.0