



SOLAR PLUS

AP1

Source from Japanese Project

N-TYPE Bifacial 345W



**HIGHER
EFFICIENCY**



**LOWER TEMPERATURE
COEFFICIENT**



**LOW ATTENUATION,
LONG LIFETIME**



**HIGHER
BIFACIALITY**

CERTIFICATION



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

345W

AP1

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	345
Power Tolerance	W	0~+5
Maximum Power Voltage (V _m)	V	35.30
Maximum Power Current (I _m)	A	9.78
Open Circuit Voltage (V _{oc})	V	42.20
Short Circuit Current (I _{sc})	A	10.37
Module Efficiency (η _m)	%	20.45

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	259
Maximum Power Voltage (V _m)	V	32.83
Maximum Power Current (I _m)	A	7.89
Open Circuit Voltage (V _{oc})	V	39.25
Short Circuit Current (I _{sc})	A	8.39

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

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	1684×1002×30mm
Weight	23kg
Number of Cells	120 (6×20)
Glass	2mm+2mm, High Transmission, Low Iron, Semi-tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4mm ² (EU), +200 mm, -300mm or customized
Connector	MC4 Compatible

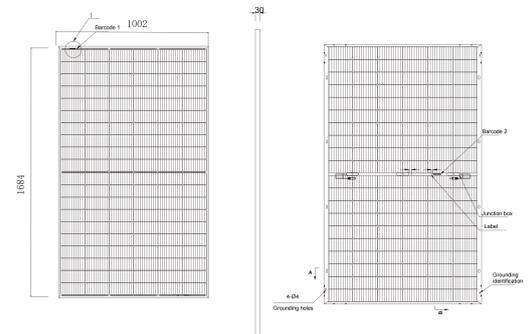
APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Operating Temperature	-40°C ~ +85°C
Mechanical Load	5400Pa/2400Pa
Hail Test	25mm diameter hail at 23m/s
Bifaciality	80±5%
Application Rating	IEC Class C

TEMP CHARACTERISTICS

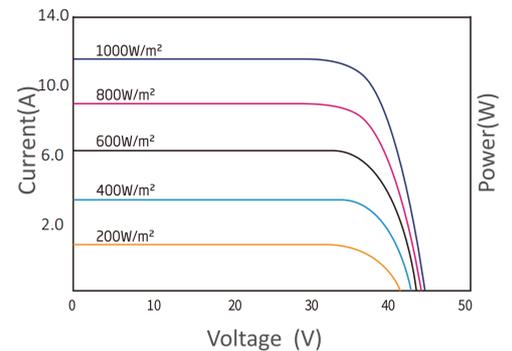
Nominal Module Operating Temperature	43±2°C
Temperature Coefficient of P _{max}	-0.29%/°C
Temperature Coefficient of V _{oc}	-0.25%/°C
Temperature Coefficient of I _{sc}	+0.045%/°C

TECHNICAL DRAWING

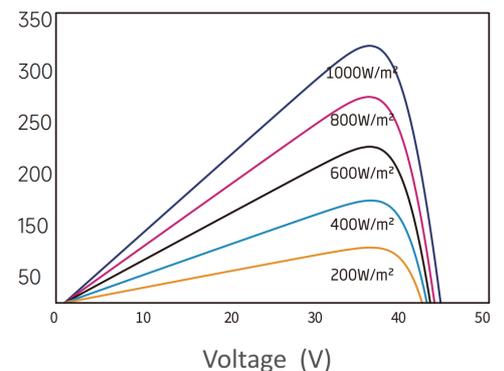


I-V CURVE

I-V characteristics at different irradiance (AP1-345W)



I-V characteristics at different temperatures (AP1-345W)



PACKING CONFIGURATION

Container	40'HC
Pallets per Container	28 pcs
Pieces per Container	868 pcs



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