

# SP345-120M HALF-CUT

330W/335W/340W/345W

High Efficiency Mono PERC Half-cell Photovoltaic Module



**Power tolerance**

0~±3%



**Withstand strong snow load**

5400 Pa / wind load 2400 Pa



**Excellent low light performance**

3.5% relative eff.reduction at low-irradiance(200W/m<sup>2</sup>)



**100% EL online Inspection**

Better module reliability



**AMMONIA & SALT RESISTANCE  
PID FREE**



## Reliability & Certification

Product Guarantee: 10-year

Linear Performance Warranty

10-year : 90.7% power output

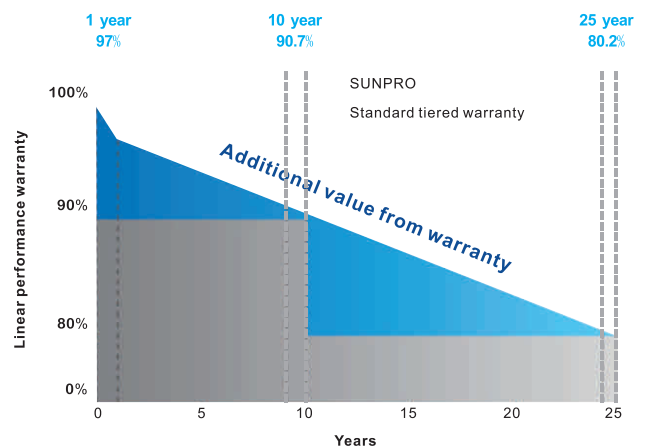
25-year : 80.2% power output



ISO 14001

ISO 9001

OHSAS 18001



## Product Specification

Electrical parameters at standard test conditions  
(STC:AM=1.5,1000W/m<sup>2</sup>,Cells Temperature 25°C)

Typical type	330W	335W	340W	345W
Max power(Pmax)	330	335	340	345
Max power voltage(Vmp)	33.0	33.2	33.4	33.6
Max power current(Impp)	10.00	10.09	10.18	10.27
Open circuit voltage(Voc)	40.4	40.6	40.8	41.0
Short circuit current(Isc)	10.36	10.45	10.55	10.66
Module Efficiency(%)	19.74	20.04	20.34	20.64
Max system voltage	DC 1500V(TUV) / DC 1000V(TUV)			
Maximum Series Fuse Rating	15A			

## Mechanical Data

Item	Specification
Dimensions	1685x992x35mm
Weight	18.5kgs
Front glass	3.2mm tempered glass
Output cables	4mm <sup>2</sup> symmetrical lengths 900mm
Connectors	MC4 compatible IP67
Cell type	Mono-Crystalline PERC Half-Cell 5BB 9BB 12BB 78mm x 156mm
Number of cells	120 cells in series

## Temperature Characteristics

Item	Specification
Temp.Coeff.of Isc(TK Isc)	0.049%/°C
Temp.Coeff.of Voc(TK Voc)	-0.29%/°C
Temp.Coeff.of Pmax(TK Pmax)	-0.39%/°C
Operating temperature	-40~+85°C
Normal operating cell temperature	45±2°C

## Packing Configuration

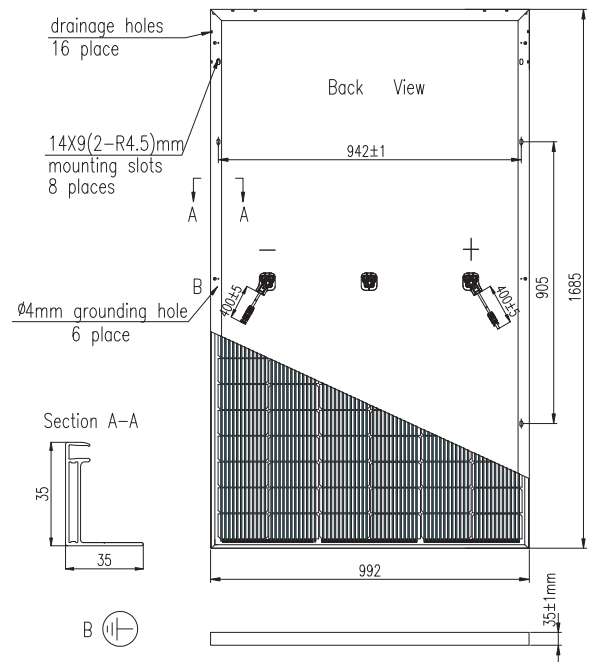
Item	Specification		
Container	20'GP	40'GP	40'HQ
Pieces per pallet	60	52	60
Pallets per container	6	14	14
Pieces per container	360	728	840

## Tests, Certifications and Warranties

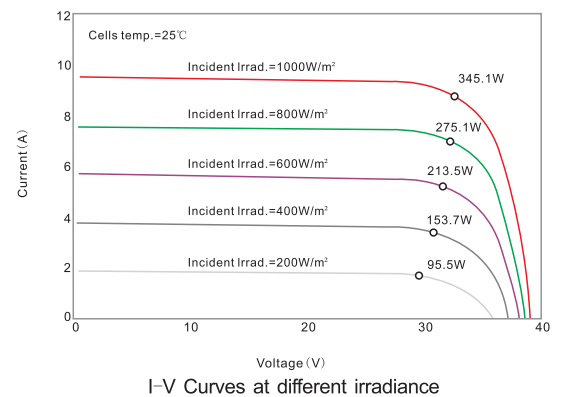
Item	Specification
Standard tests	IEC 61215, IEC 61730
System certs	ISO 9001, ISO14001, OHSAS 18001
Certifications	TUV,CE,WEEE,INMETRO
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Power tolerance	0~±3%
Junction box	IP67

Warranties  
10 years product warranty and 25 years 80% of power

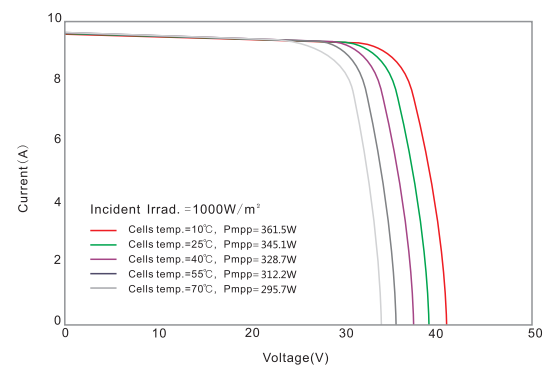
## Dimensions and Structure



## I-V Curve



I-V Curves at different irradiance



I-V Curves at different temperature