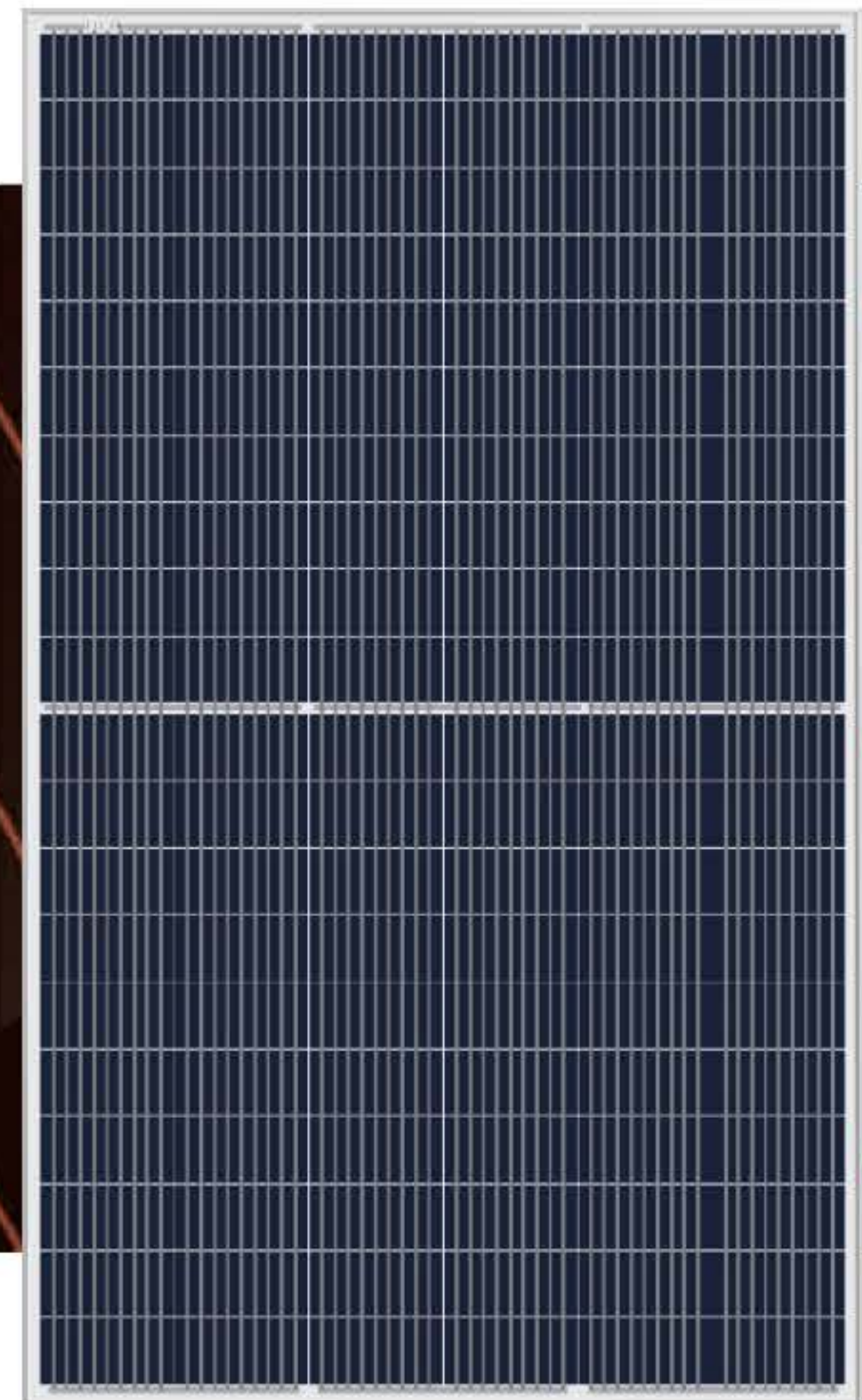


# 295-120P HALF-CUT

285W/290W/295W

High Efficiency Poly Photovoltaic Module



- Industry leading module power output warranty
- International quality, safety and performance certifications
- Manufacturing facility certified to ISO9001 quality management system standards
- Beautiful appearance, good durability & easy installation
- Special design in accordance with requirements of customers



ISO 9001



ISO 14001



OHSAS 18001



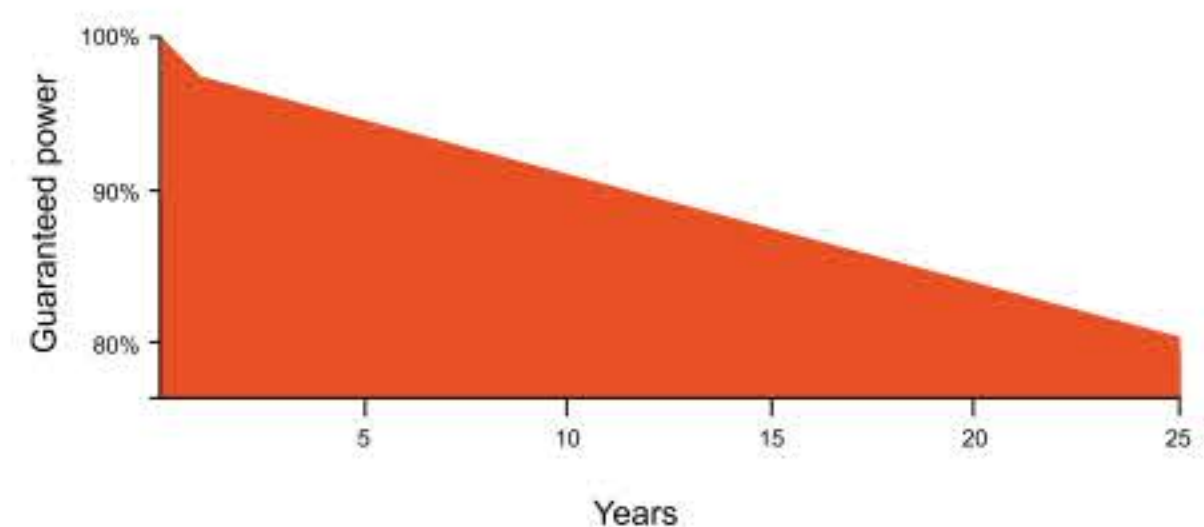
## WARRANTIES

**10 years** for product defects in materials & workmanship

**10 years** for 90% of warranted minimum power output

**25 years** for 80% of warranted minimum power output

**25 years** linear warranty





# xxx-120P Half-Cut 285W/290W/295W PHOTOVOLTAIC MODULE

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

Typical type	285W	290W	295W
Max power(Pmax)	285	290	295
Max power voltage(Vmp)	31.4	31.6	31.8
Max power current(Imp)	9.08	9.18	9.28
Open circuit voltage(Voc)	38.6	38.8	39.1
Short circuit current(Isc)	9.48	9.58	9.75
Module Efficiency(%)	17.05	17.35	17.65
Max system voltage	DC 1500V(TUV) / DC 1000V(TUV)		
Maximum Series Fuse Rating	15A		

## Mechanical Data

Item	Specification
Dimensions	1685×992×35mm
Weight	18.5kgs
Front glass	3.2mm tempered glass
Output cables	4mm <sup>2</sup> symmetrical lengths 900mm
Connectors	MC4 compatible IP67
Cell type	Poly -Crystalline Half-Cell 5BB 9BB 12BB 78mm× 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

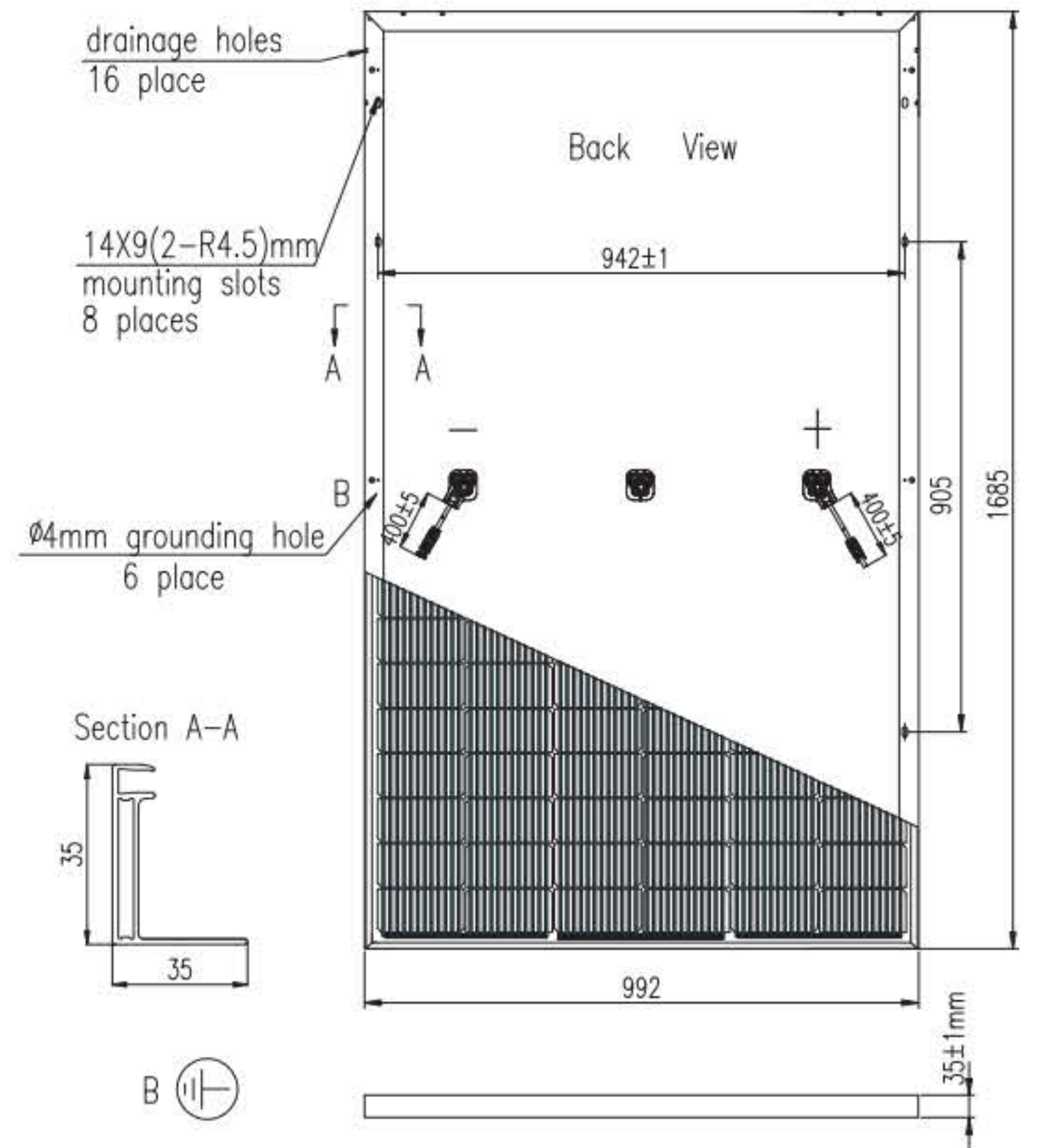
## Packing Configuration

Item	Specification		
Container	20'GP	40'GP	40'HQ
Pieces per pallet	60	52	64
Pallets per container	6	14	14
Pieces per container	360	728	896

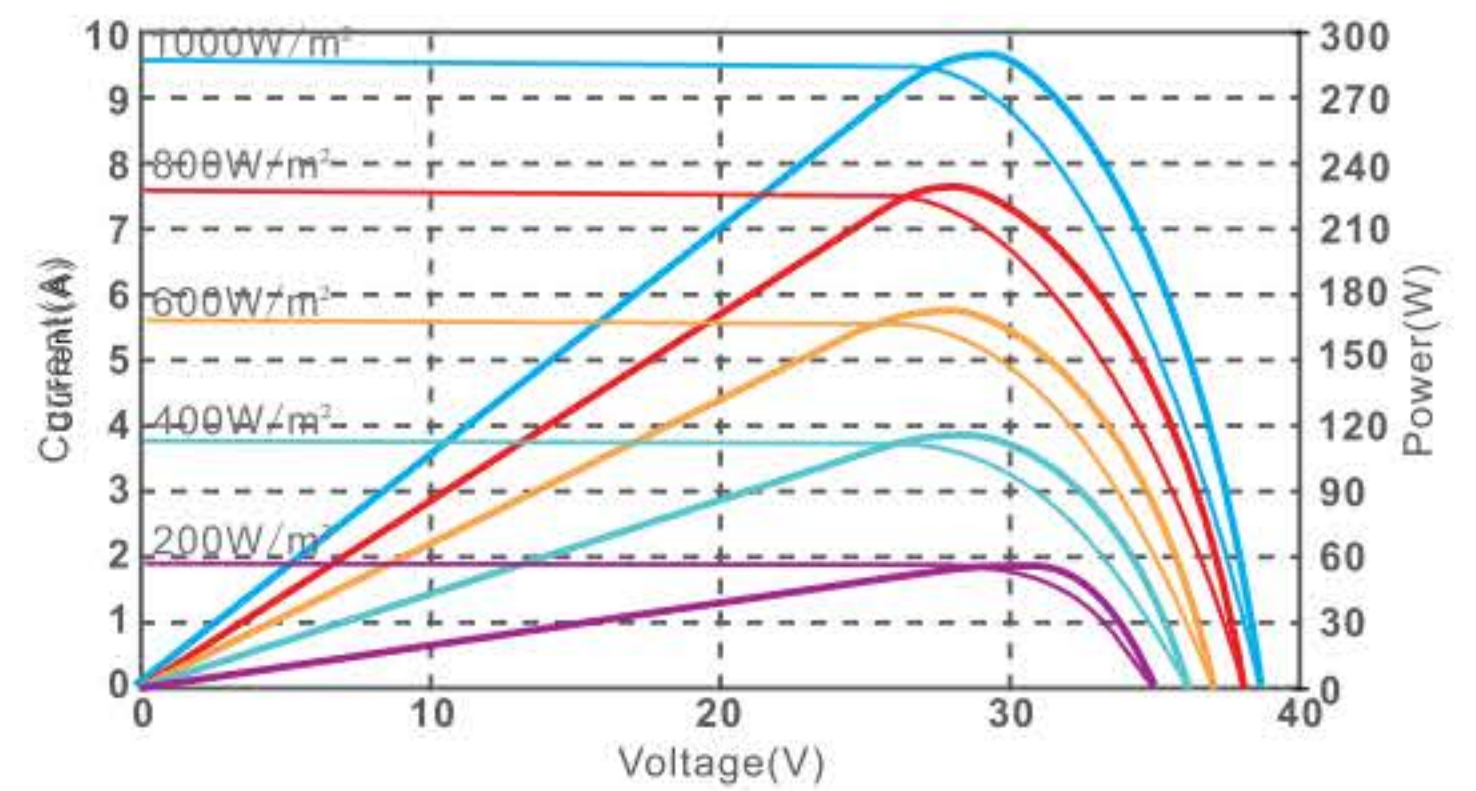
## Tests, Certifications and Warranties

Standard tests	IEC 61215, IEC 61730
System certs	ISO 9001, ISO14001, OHSAS 18001
Certifications	TUV
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

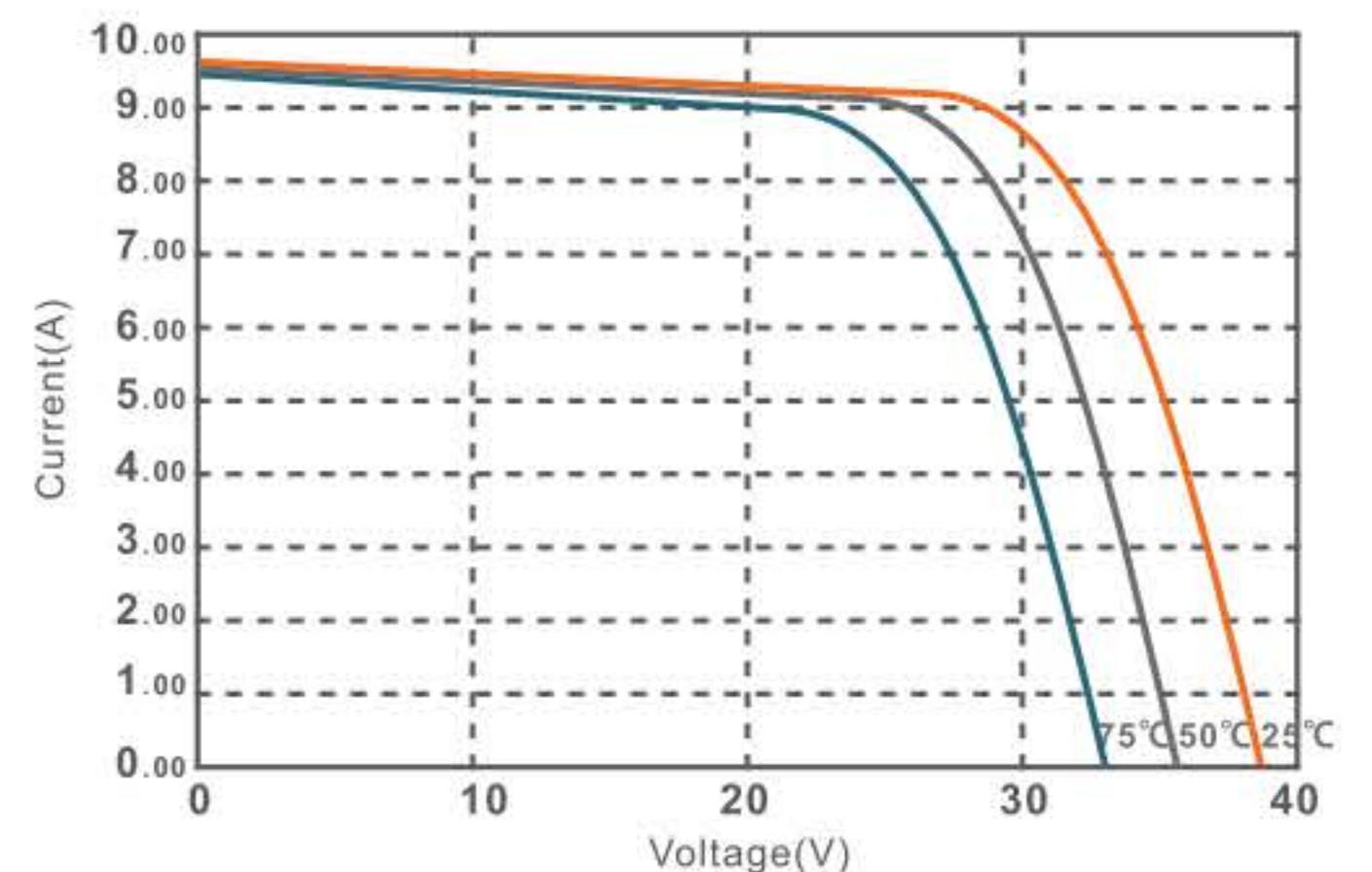
## Dimensions and Structure



## I-V Curve



I-V Curves at different irradiance



I-V Curves at different temperature