

# Benchmark II SPP355-385P72H

## 355-385W MWT Module

### Poly 72 Cells

Australian Version

Manufactured in China

# 19.8%

Module efficiency up to 19.8%

## MWT Solar Cell

- New cell structure and different manufacturing process.
- No bus-bar on the front. 3% less shadow and better use of sunlight.
- Effectively avoid the micro crack caused by the pressure between cell edge and ribbon.
- Compatible with other cell types including PERC, HIT, Black Silicon etc.

## Insured by PICC and LLOYD'S

**PICC** **LLOYD'S**

## Comprehensive Qualifications & Certifications

- ★ IEC 61215, IEC 61730.
- ★ CQC&CGC Top Runner Advanced Technology Certification (4A class)
- ★ ISO 9001: 2015 Quality Management System
- ★ ISO 14001: 2015 Environment Management System
- ★ OHSAS 18001: 2007 Occupation Health Safety Management System
- ★ TUV NORD and UK NQA Quality System Certification



## Benchmark MWT PV Module



### Higher Efficiency

The highest efficiency of the series is up to 19.8%.



### Higher Yield

Higher power generation on the same installation.



### Lower Degradation

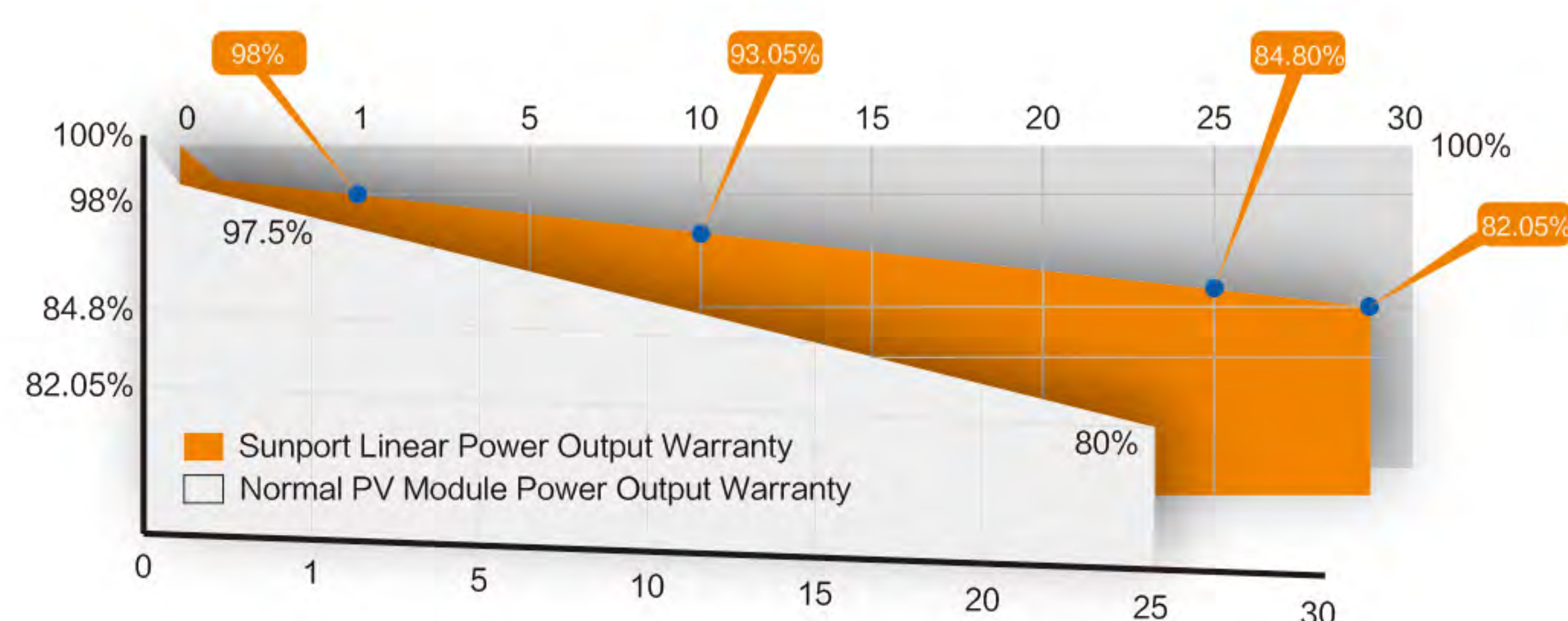
At least 98% of the initial effective output at the 1<sup>st</sup> year and 82.05% at the 30<sup>th</sup> year.



### Heat-Resistant

Remain peak performance in hot days thanks to the improved temperature coefficient as low as  $-0.36\%/^{\circ}\text{C}$ .

## 30 Years Performance Warranty





## Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP355P72H	SPP360P72H	SPP365P72H	SPP370P72H	SPP375P72H	SPP380P72H	SPP385P72H
Max-Power(Pm)	W	355	360	365	370	375	380	385
Power Tolerance	%	0~+3%						
Max-Power Voltage(Vm)	V	37.7	37.9	38.1	38.3	38.5	38.7	38.9
Max-Power Current(Im)	A	9.42	9.50	9.59	9.67	9.75	9.83	9.90
Open-Circuit Voltage(Voc)	V	46.6	46.8	47.0	47.2	47.4	47.6	47.8
Short-Circuit Current(Isc)	A	9.86	9.92	9.98	10.04	10.10	10.16	10.22
Module Efficiency(ηm)	%	18.3	18.6	18.8	19.1	19.3	19.6	19.8

STC:AM=1.5, Irradiation 1000W/m<sup>2</sup>, Module Temperature 25°C

## Electrical Characteristics at Nominal Module Operating Temperature ( NMOT )

Spec/Model	Unit	SPP355P72H	SPP360P72H	SPP365P72H	SPP370P72H	SPP375P72H	SPP380P72H	SPP385P72H
Max-Power(Pm)	W	264	268	272	276	279	283	287
Max-Power Voltage(Vm)	V	34.4	34.6	34.8	35.0	35.1	35.3	35.5
Max-Power Current(Im)	A	7.68	7.75	7.82	7.89	7.95	8.02	8.09
Open-Circuit Voltage(Voc)	V	42.7	42.8	42.9	43.0	43.1	43.3	43.5
Short-Circuit Current(Isc)	A	8.02	8.09	8.15	8.20	8.25	8.31	8.37

NMOT: Irradiation 800W/m<sup>2</sup>, ambient temperature 20°C, Wind Speed 1m/s

## Temperature Coefficient

Nominal Module Operating Temperature	43 ± 2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	0.06%/°C

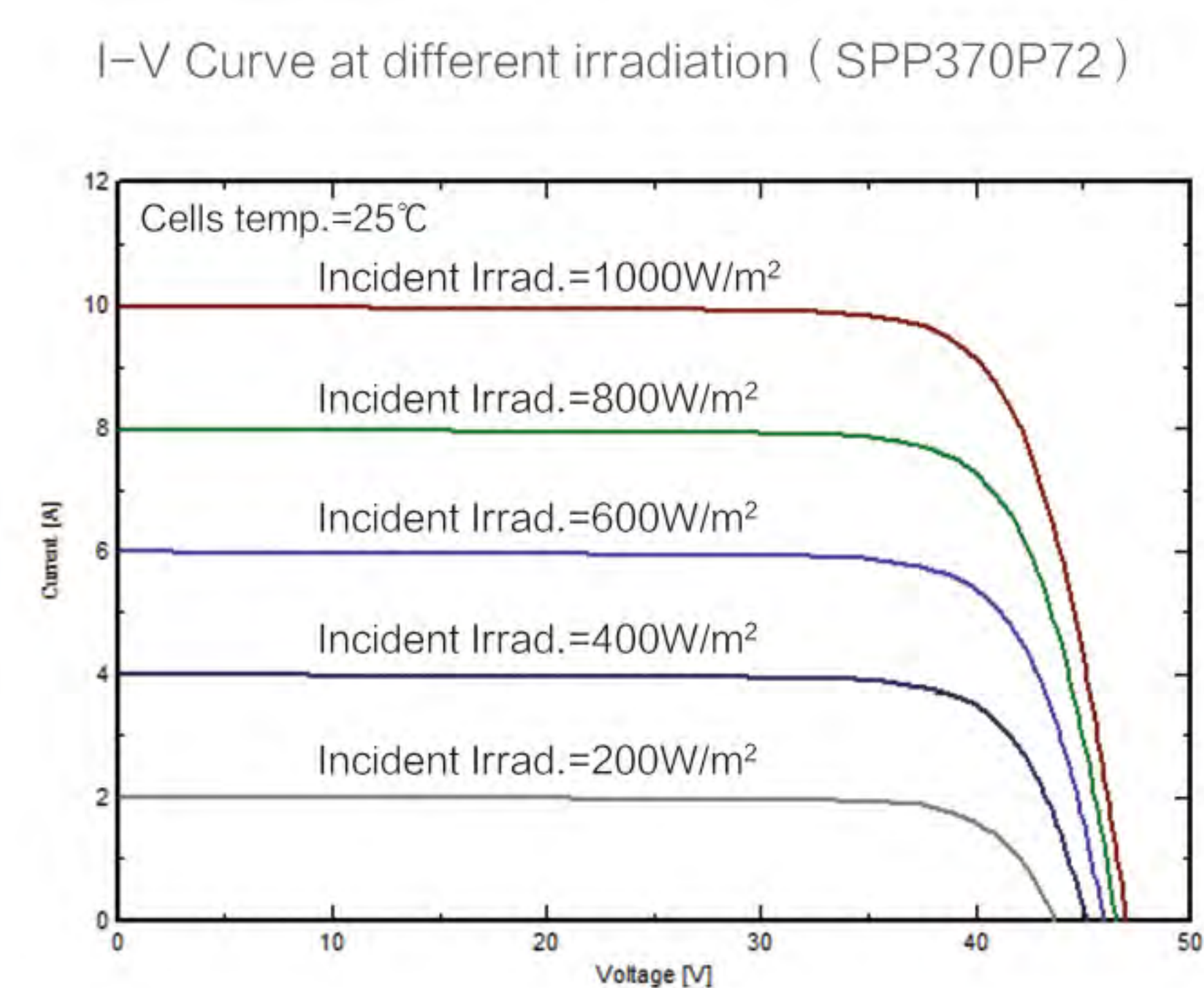
## Package

Container Size	Quantity(pcs)	Quantity(pallet)
20' GP	260	10
40' GP	624	24
40' HC	624/672	24

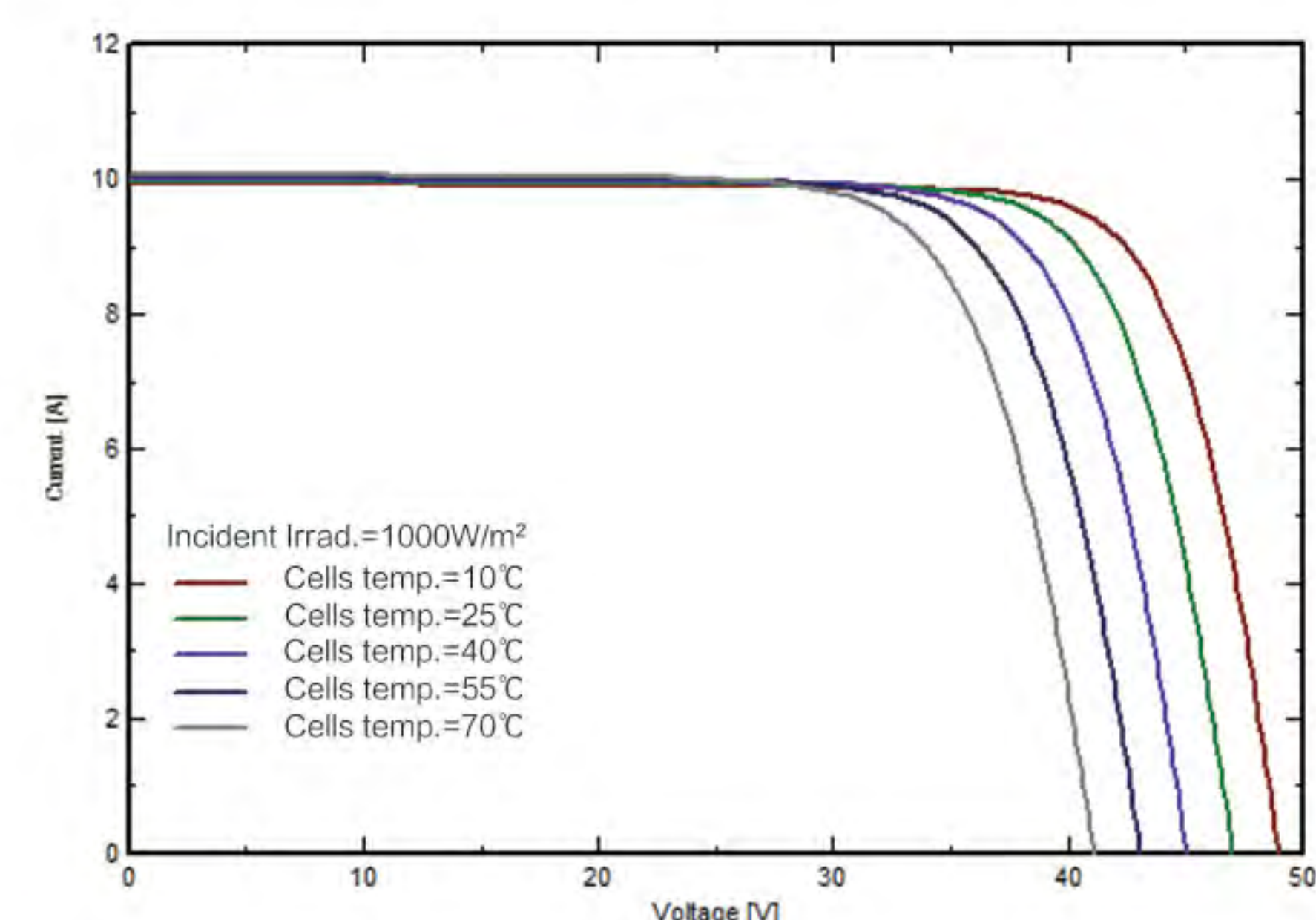
## Mechanical Property

Dimension(L × W × H)	1956mmx992mmx40mm
Weight	22.5kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	72(12x6)/Poly/ 6inches
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP65 & IP67
Cable	1200mm / 4mm <sup>2</sup>
Connector	TL-CABLE01S

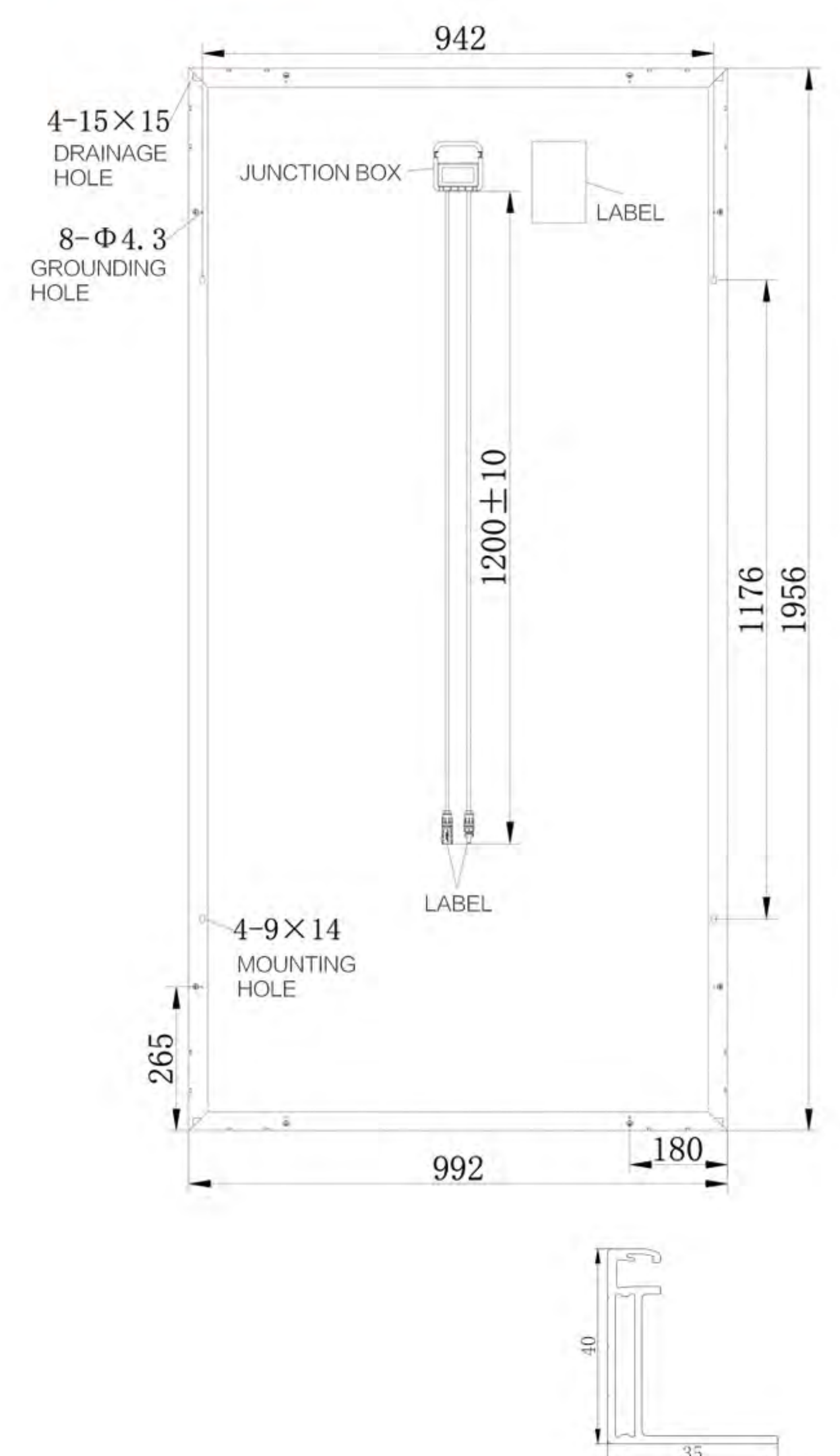
## I-V Curve



I-V Curve at different temperature ( SPP370P72 )



## Module Size



## Operating Conditions

Max System Voltage	DC1500V(TUV)
Max Fuse Rated Current	15A
Operating Temperature Range	-40°C ~ +85°C
Mechanical Load	5400Pa/2400Pa
Max Allowable Hail Load	φ 25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

