



Enjoy Sunshine Enjoy Life



# POLYCRYSTALLINE SOLAR MODULE

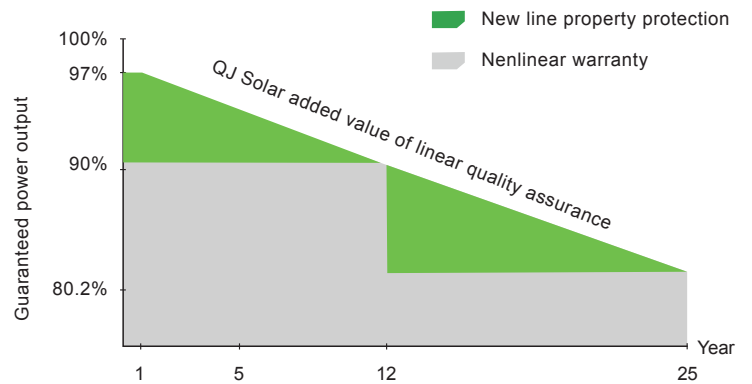
## POLYCRYSTALLINE 120-CELL SERIES

### The solar panel characteristics

- 1500 Voltage**  
1500V system voltage design, compared with 1000V system greatly reduces BOS cost.
- 5BB**  
More uniform current collection ability, reduce the current heat loss of the battery inside the module; Beautiful appearance, more suitable for roof installation.
- PID Resistant**  
Tested in accordance to the draft standard IEC 62804, our PV modules have demonstrated resistance against PID(Potential Induced Degradation), which translates to security for your investment.
- Low light performance**  
Through the use of excellent glass and battery surface velvet technology to achieve low light environment excellent performance.
- Load Capacity**  
The whole assembly has been certified with wind load of 2400Pa and snow load of 5400Pa, pass extra 8000Pa snow resistance.
- Customizable**  
Solar panels can be customized as your requirements.

### QJ Solar linear warranty

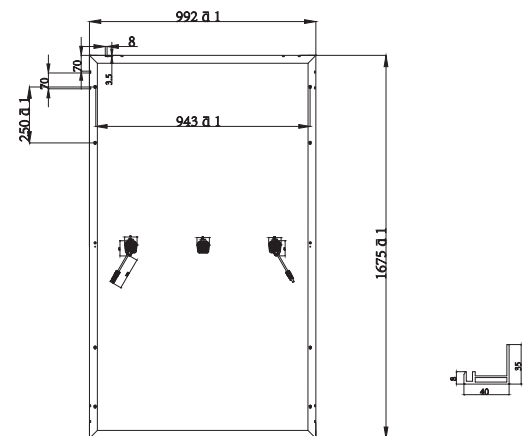
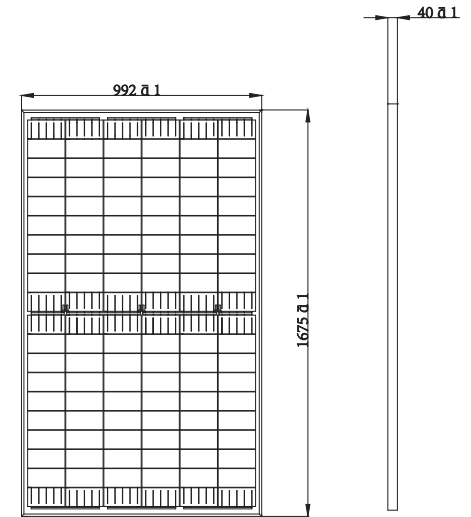
- 10 Years** Limited Product Warranty
- 25 Years** Performance Warranty



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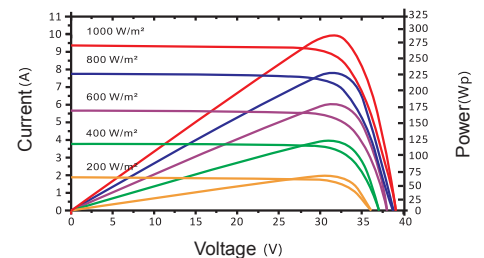
## Module Diagram:



## Electrical Curves:

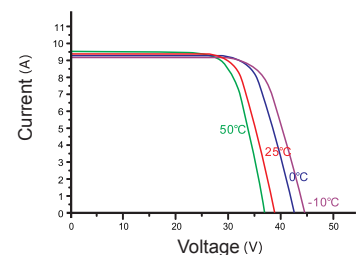
### QJP285 - 120H

I-V characteristics at different irradianations



I-V characteristics at different temperature

(AM1.5, 1000W/m<sup>2</sup>)



## ELECTRICAL PERFORMANCE

Module Type	QJP285 -120H	QJP290 -120H	QJP295 -120H	QJP300 -120H	
Power output	$P_{max}$ Wp	285	290	295	300
Power output tolerance	$\Delta P_{max}$ W	0 + 3			
Voltage at Pmax	$V_{mpp}$ V	32.1	32.3	32.5	32.7
Current at Pmax	$I_{mpp}$ A	8.88	8.98	9.08	9.18
Open-circuit voltage	$V_{oc}$ V	39.17	39.41	39.65	39.89
Short-circuit current	$I_{sc}$ A	9.4	9.5	9.61	9.71
Module Efficiency	Eff. %	17.15	17.45	17.75	18.05

## TEMPERATURE & MAXIMUM RATINGS

Temperature coefficient of Pmax	-0.39%/C
Temperature coefficient of Voc	-0.32%/C
Temperature coefficient of Isc	0.055 %/C
Operational Temperature	-45 C ~ +85 C
Maximum System Voltage	1000/1500VDC
Max Series Fuse Rating	15A

## MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron, high transmission, tempered AR coated glass, 3.2mm
Backsheet (color)	white
Solar Cell (quantity / material / dimension)	120(6*10+6*10), polycrystalline, 156.75*156.75mm/158.75*158.75mm
Frame (material / color)	anodized aluminum alloy, silver
Junction box ( protection degree)	IP 67, 3 Schottky bypass diodes
Cables & Plug connectors	300mm, 4mm <sup>2</sup> & MC4 compatible
Module Dimensions (L / W / H)	1675*992*35mm/1695*1002*35mm
Module Weight	18.7/19kg

## PACKING DETAILS

Container	20' GP	40' GP
Pieces per pallet	30PCS	30PCS
Pallets per container	12P	26P
Pieces per container	360PCS	780PCS

# QJ SOLAR Cixi City Rixing Electronics Co., Ltd.

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