



## Efficient Module

**72 pieces**

Poly-crystalline Module

**310-320W**

Power Output Range

**16.5%**

Maximum Efficiency

**0~+5W**

Power Tolerance

### Product Specifications Book

Ideal for large scale installations

- High power footprint reduces installation time and BOS costs
- 1000V UL/1000V IEC certified

One of the industry's most trusted modules

- Field proven performance
- Strong, reliable supplier

Highly reliable due to stringent quality control

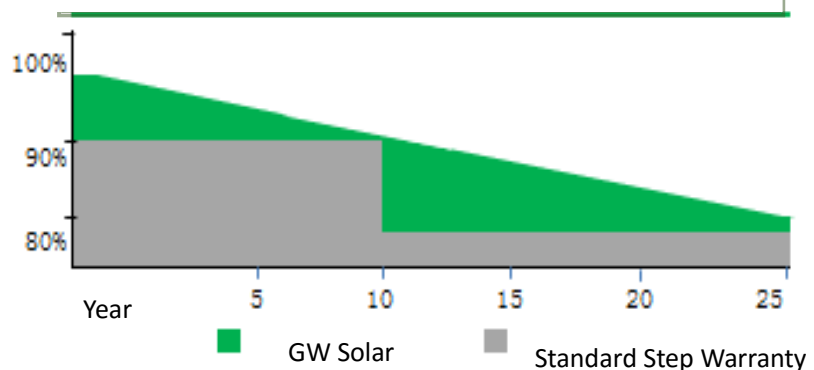
- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- 100% EL double inspection

Certified to withstand challenging environmental conditions

- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm hail stones at 97 km/h
- PID resistant

### LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty-25 Year Linear Power Warranty



### Electrical Specifications (standard test conditions)

Maximum Power -P <sub>MAX</sub> (Wp)	310	315	320
Power Tolerance -P <sub>MAX</sub> (W)	0 ~ +5%		
Maximum power point of operating voltage -P <sub>MPP</sub> (V)	37.0	31.7	31.7
Maximum power point of operating current -I <sub>MPP</sub> (A)	8.38	8.51	8.63
Open circuit voltage -V <sub>oc</sub> (V)*	45.5	45.6	45.8
Short circuit current - I <sub>M</sub> (A)	8.85	9.00	9.10
Module Efficiency $\eta_m$ (%)	16.0	16.2	16.5

Standard test conditions under Measured Value:( air quality AM1.5, Irradiance 1000W / m<sup>2</sup> cell temperature 25 °C)

### Electrical Index (under nominal operating cell temperature conditions)

Maximum Power -P <sub>MAX</sub> (Wp)	230	234	238
Maximum power point of operating voltage -P <sub>MPP</sub> (V)	34.3	34.3	34.4
Maximum power point of operating current -I <sub>MPP</sub> (A)	6.72	6.83	6.91
Open circuit voltage -V <sub>oc</sub> (V)*	42.2	42.3	42.5
Short circuit current - I <sub>M</sub> (A)	7.15	7.27	7.35

NOCT: Irradiance 800W / m<sup>2</sup>; ambient temperature of 20 °C, wind speed 1m / s

### Temperature Rating

	Limit parameter		
Nominal Operating Cell Temperature (NOCT)	44 °C (±2 °C)	Working Temperature	-40~+85 °C
Maximum power (P <sub>MAX</sub> ) Temperature Coefficient	- 0.41%/ °C	Maximum system voltage	1000V DC (IEC)
Open-circuit voltage (VOC) Temperature Coefficient	- 0.32%/ °C		1000V DC
Short circuit current (ISC) Temperature Coefficient	0.05%/ °C	Maximum fuse rated Current	15A

### Mechanical Specifications

Solar cell Type	156mm × 156mm Mono-crystalline
Number of Cells	1 module 72pieces (6 × 12)
Dimensions	1956 × 992 × 40 mm
Weight	26kg
Glass	4.0mm, High transparency, anti-reflective coatings toughened glass
Backsheet	white
Frame	Silver, anodized aluminum
Junction Box	Protection level IP 67/ IP 68
Cable	4.0 mm <sup>2</sup> 1200 mm Photovoltaic dedicated cables
Connector	MC4 compatible

### Warranty

10-year warranty for product

25-year warranty for linear power

\*Please refer to product warranty for details

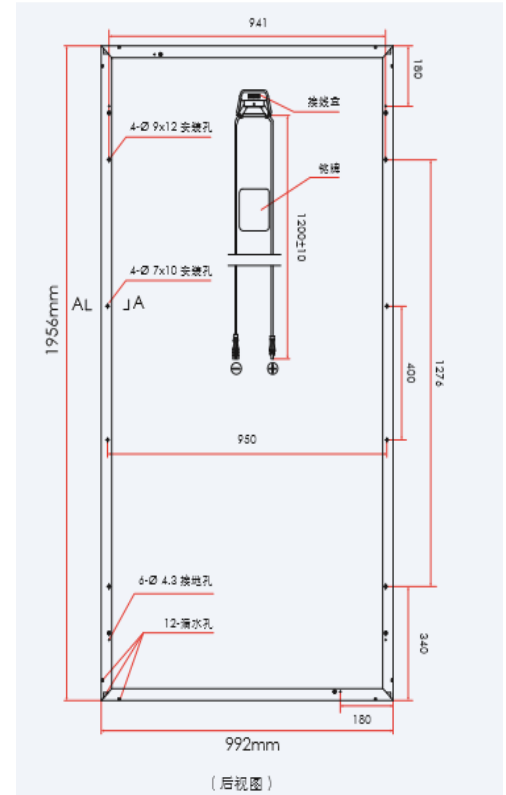
### Packaging Method

Modules per box: 26 pcs

Modules per 40 ft container: 572 pcs

\* Installation depends on the mechanical load

### DIMENSIONS OF MODULE



### I-V CURVES OF PV MODULE ( 320W)

