






Key Features

-  Full square poly crystalline modules designed for residential and utility applications, rooftop or ground mountings
-  High power output of more than 310W and module efficiency up to 16.0%
-  Anti-reflective and anti-soiling surface reduces power loss from dirt and dust
-  Outstanding performance in low-light irradiance environments
-  Excellent mechanical load resistance: certified to withstand high wind loads(2400Pa) and snow loads(5400Pa)

Reliable Quality

Raw Material Control

- ✓ Only the materials certified by TUV officially will be approved.
- ✓ Strict material inspection before storehouse acceptance&production.

100% EL Double Test

- ✓ Front EL test before lamination to find revisable defect.
- ✓ Rear EL test before packing to avoid hidden quality threat.

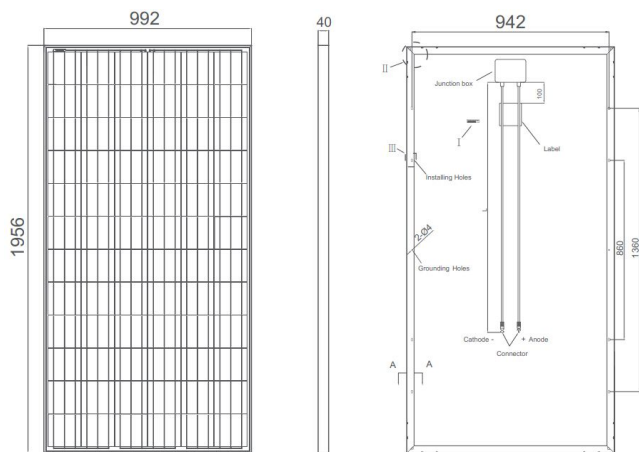
Superior Warranty

- ✓ 10-year limited product warranty for replacement or compensation.
- ✓ 25-year power output warranty for replacement or compensation.

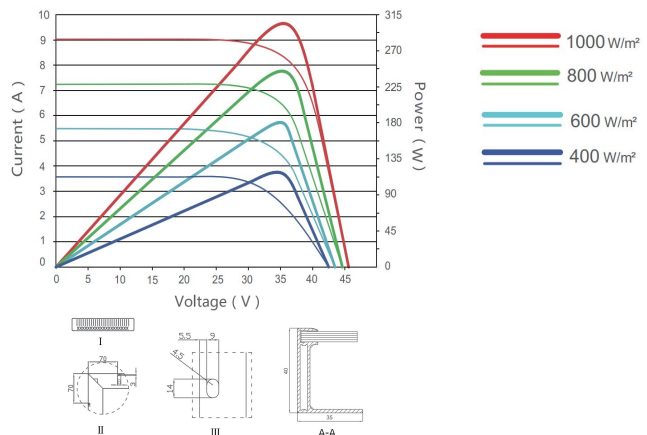
Comprehensive Certification

- ✓ TUV-NORD (IEC61215&61730)
- ✓ CE-NORD (2006/95/EC)
- ✓ ISO9001/14001:Quality/Environmental management systems

Engineering Front&Back Side Drawings



C-V&P-V Curves (305W)



Mechanical Characteristics

Cell Type	Poly 156×156 mm (6')
Number of Cells	72 (6×12)
Dimension	1956×992×40mm
Weight	26.5 kg
Front Glass	Low iron Tempered Glass, 3.2mm
Junction Box	IP67, 4 diodes
Connector	MC4 Compatible

Temperature Characteristics

NOCT	45±2℃
Temperature coefficient of Pmax	-0.44%/℃
Temperature coefficient of Voc	-0.34%/℃
Temperature coefficient of Isc	0.06%/℃

NOCT(Nominal Operating Cell Temperature):

Irradiance 800W/m², Ambient temperature 20℃,
AM 1.5, Wind speed 1m/s

Electrical Characteristics Under STC

Module Type	ESUN290P-72	ESUN295P-72	ESUN300P-72	ESUN305P-72	ESUN310P-72
Maximum Power-Pmax (Wp)	290	295	300	305	310
Voltage at Maximum Power-Vmp (V)	35.9	36.2	36.6	36.8	37.0
Current at Maximum Power -Imp (A)	8.09	8.15	8.20	8.30	8.38
Open Circuit Voltage-Voc (V)	44.7	45.1	45.3	45.6	45.9
Short Circuit Current-Isc (A)	8.64	8.76	8.84	8.91	8.96
Module Efficiency-η _m (%)	14.9	15.2	15.5	15.7	16.0
Power Tolerance (W)	0/+5	0/+5	0/+5	0/+5	0/+5
Maximum System Voltage	1000VDC (IEC)				
Operating Temperature	-40℃ ~ +85℃				
Maximum Series Fuse	15A				

STC (Standard Testing Conditions) : Irradiance 1000/m², Cell temperature 25℃, AM 1.5

Packing Configuration

Pallet: 25 PCS

20'GP/40'GP: 250 PCS / 550 PCS

Pallet Size: 1990×1130×1130 MM

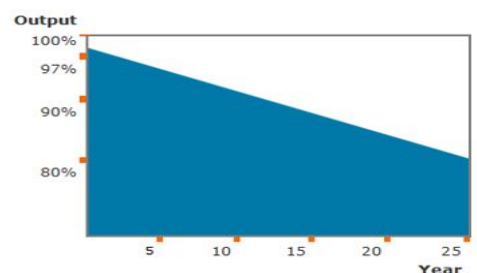
Pallet Gross Weight: 613 KGS

Superior Warranty

☀ 10-year product warranty

☀ 10-year warranty for 90% power output

☀ 25-year warranty for 80% power output



Electrical data in this sheet don't refer to a single module and they are not part of the offer. They only serve for comparison among different module types.