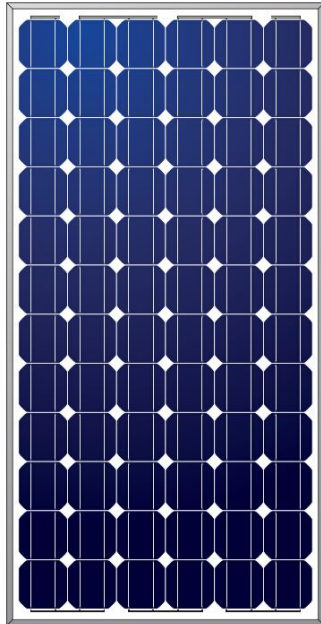







### Key Features



-  Full square poly crystalline modules designed for residential and utility applications, rooftop or ground mountings
-  High power output of more than 215W and module efficiency up to 16.8%
-  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.

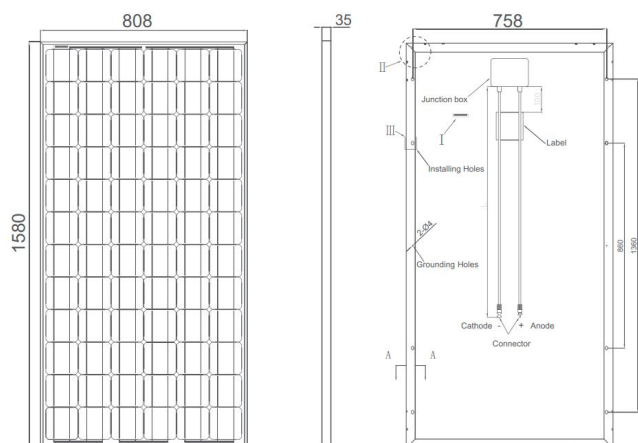
#### Superior Warranty

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

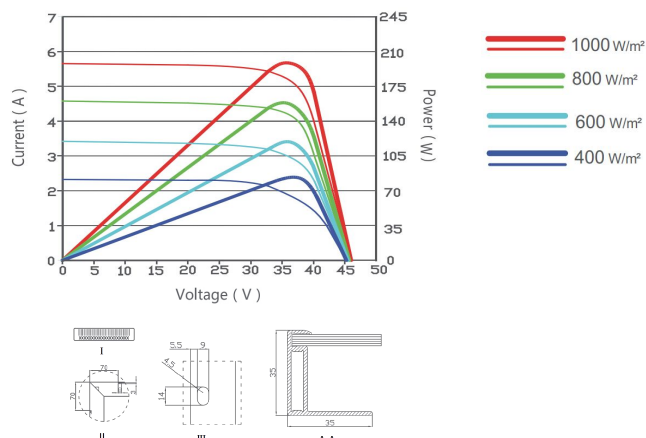
#### Comprehensive Certification

- ✓ 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 (195W)



## Mechanical Characteristics

Cell Type	Mono 125×125 mm (5')
Number of Cells	72 (6×12)
Dimension	1580×808×35mm
Weight	14.5 kg
Front Glass	Low iron Tempered Glass, 3.2mm
Junction Box	IP67, 3 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	ESUN195S-72	ESUN200S-72	ESUN205S-72	ESUN210S-72	ESUN215S-72
Maximum Power-Pmax (Wp)	195	200	205	210	215
Voltage at Maximum Power-Vmp (V)	36.8	36.9	37.2	37.4	37.7
Current at Maximum Power -Imp (A)	5.30	5.42	5.51	5.61	5.70
Open Circuit Voltage-Voc (V)	45.4	45.6	45.9	46.1	46.4
Short Circuit Current-Isc (A)	5.67	5.80	5.90	5.99	6.09
Module Efficiency-η <sub>m</sub> (%)	15.3	15.7	16.1	16.5	16.8
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: 28 PCS

20'GP/40'GP: 336 PCS / 784 PCS

Pallet Size: 1600×1130×950 MM

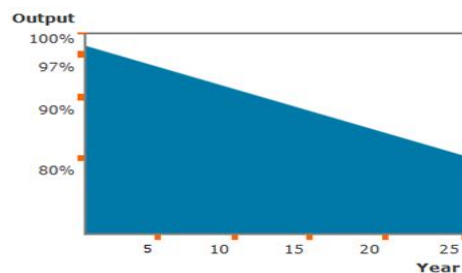
Pallet Gross Weight: 425 KGS

## 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.