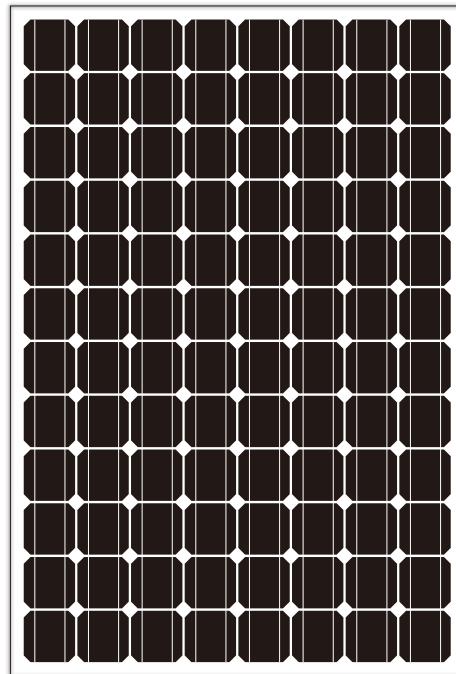
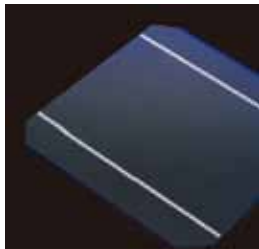


## Tihein Solar Series Mono-crystalline PV Module

# Tihein Solar

High Efficiency, High Quality  
PV Module



### Features:

- High conversion efficiency based on leading innovative PV technologies
- Tempered glass, EVA resin, and weatherproof film, and anodized aluminum frame for extended outdoor use
- Attractive appearance
- High reliable, guarantee  $\pm 3\%$  power output tolerance

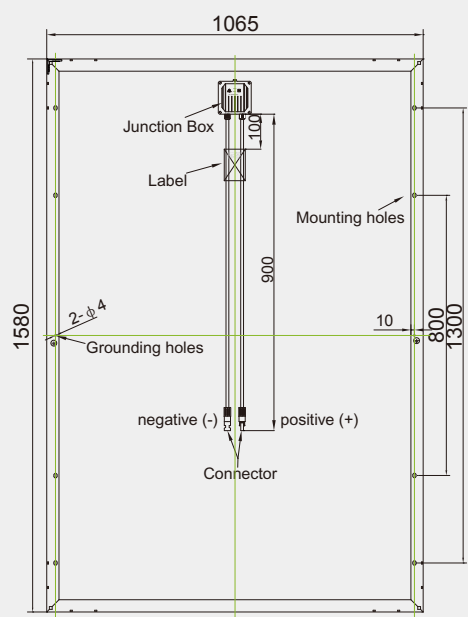
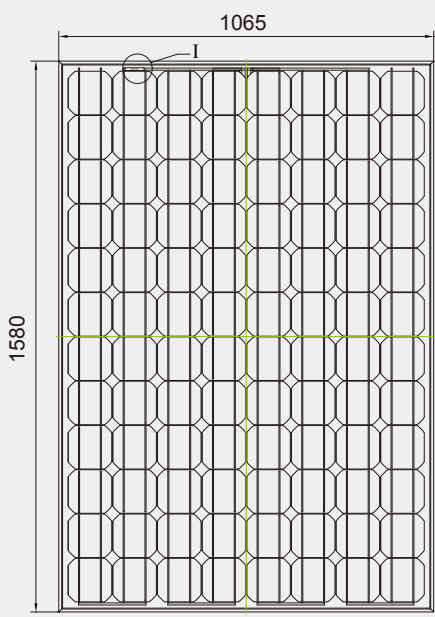
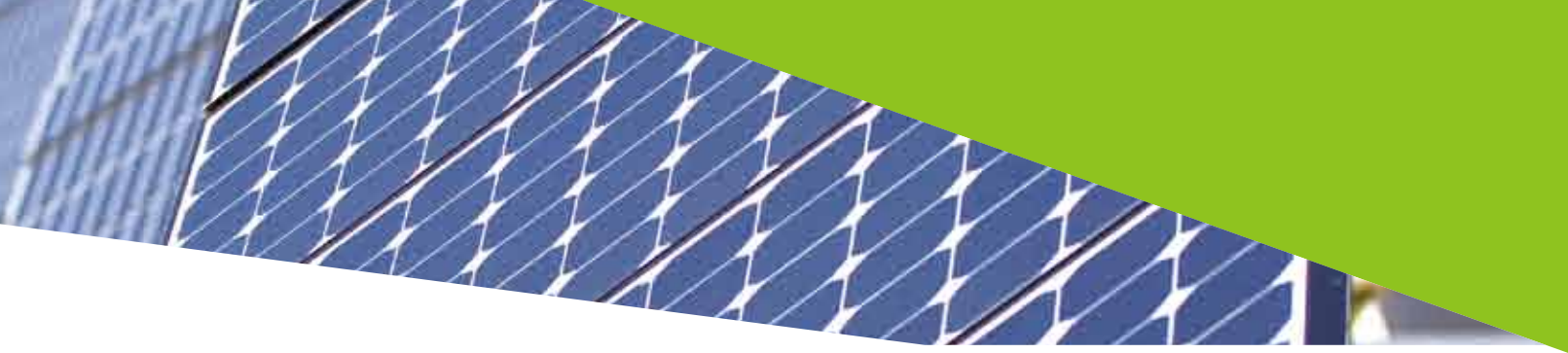
### Safety and Quality:

- 25-year limited warranty on power output:  
90% power output over 10 years 80% power output over 25 years
- 5-year materials and workmanship warranty
- Tested by leading institutes and certified for reliability:  
(1)TUV, IEC61215, IEC61730 (2)MCS (3)CE

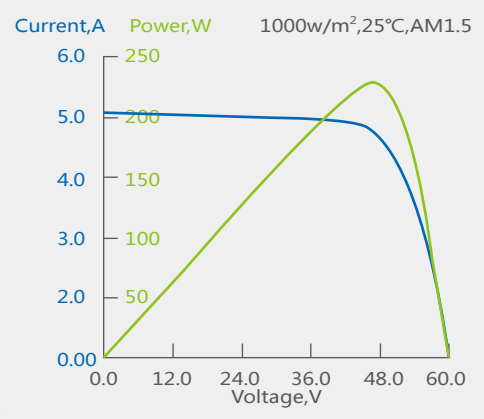
### Qualification Test

Temperature cycling range	-40 C to +85 C for 200 cycles
Damp heat test	85 C and 85 relative humidity for 1000h
Front & rear static load test (eg.:wind)	2400Pa
Front load test (eg.:snow)	5400Pa
Hailstone impact test	25mm hail at 23m/s from 1m distance





### IV CURVES



### Electrical Characteristics (220-260watt monocrystalline silicon module)

Type	Unit	THM	THM	THM	THM	THM	THM	THM	THM	THM
		220M-96	225M-96	230M-96	235M-96	240M-96	245M-96	250M-96	255M-96	260M-96
Peak power(Pmax)	W	220	225	230	235	240	245	250	255	260
Maximum power voltage(Vmp)	V	47.5	47.5	48	48	48.5	48.5	49	49	49.5
Open circuit voltage(Voc)	V	58	58	58.6	58.6	59.2	59.2	59.8	59.8	60.1
Maximum power current(Imp)	A	4.63	4.74	4.79	4.89	4.95	5.05	5.1	5.2	5.29
Short circuit current(Isc)	A	5	5.07	5.15	5.23	5.32	5.45	5.51	5.62	5.72
Maximum system voltage	V	1000	1000	1000	1000	1000	1000	1000	1000	1000
PowerTemperature and Coefficient	%/°C	-0.438	-0.438	-0.438	-0.438	-0.438	-0.438	-0.438	-0.438	-0.438
CurrentTemperature and Coefficient	%/°C	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
VoltageTemperature and Coefficient	%/°C	-0.297	-0.297	-0.297	-0.297	-0.297	-0.297	-0.297	-0.297	-0.297

### Mechanical Characteristics

Dimension(mm)	1580×1065×50
Weight(kg)	21.5
Solar cells	96 cells (125×125mm)configured geometrically for a 8×12 matrix connected in series
Output cable length(mm)	900
Construction	Front:High transmission 3.2 mm tempered glass Rear:White backsheet; Encapsulant: EVA.