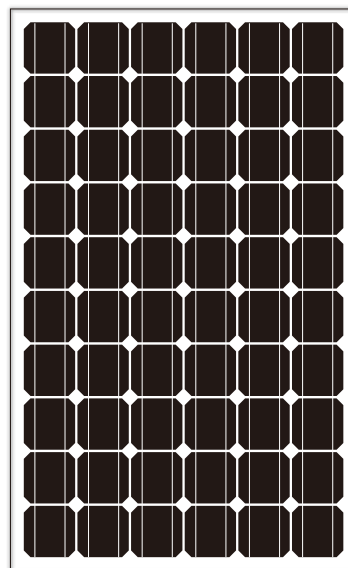
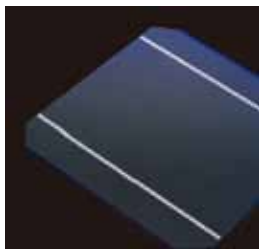


## Tihein Solar Series Mono-crystalline PV Module

# 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

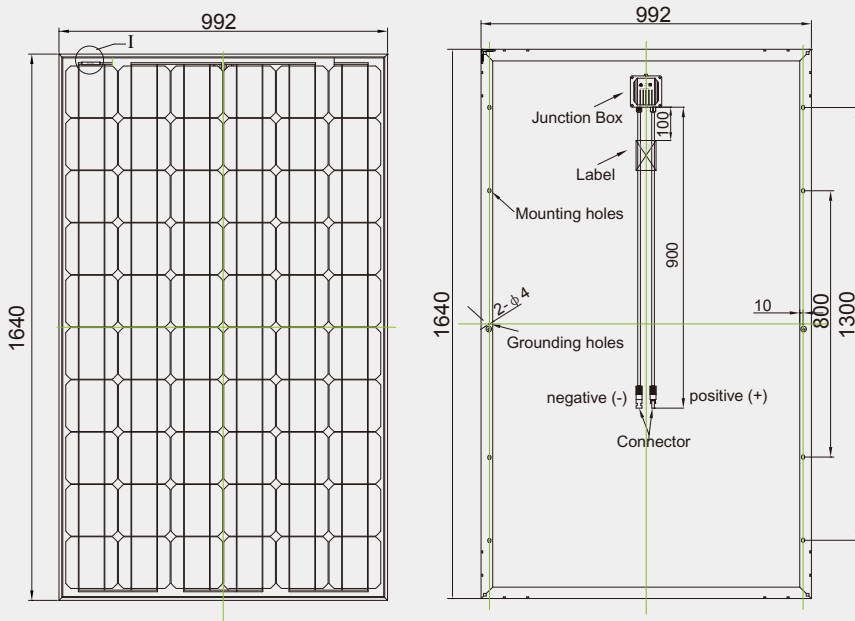
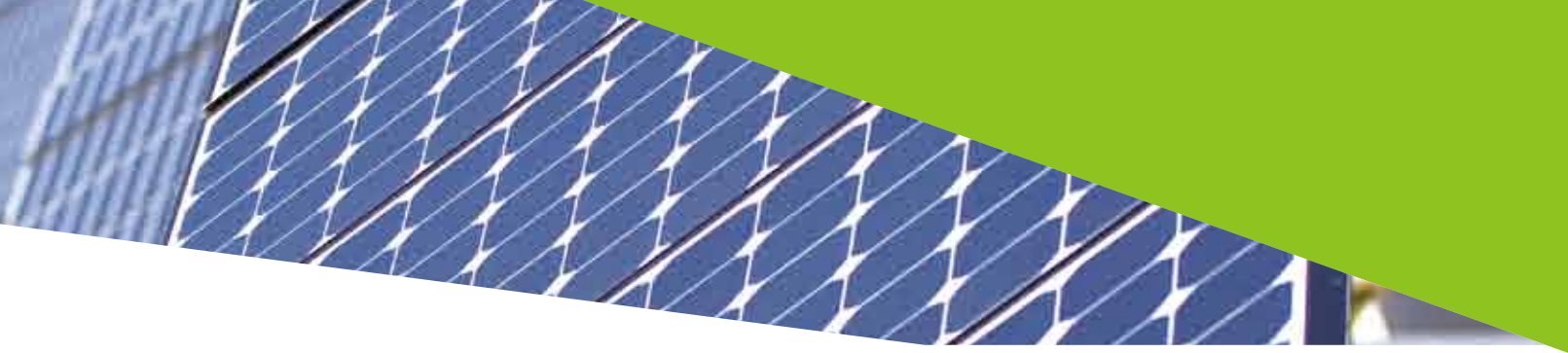
### Safety and Quality:

- 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

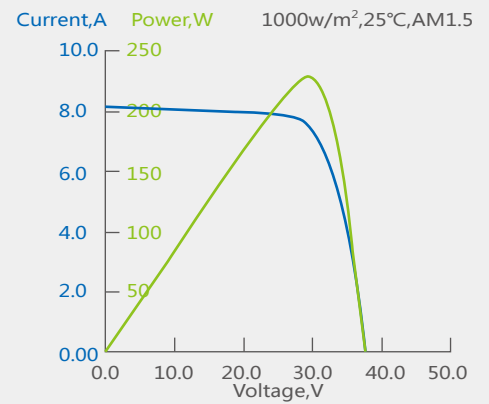
### Qualification Test

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 (215-260watt monocrystalline silicon module)

Type	Unit	THM	THM	THM	THM	THM	THM	THM	THM	THM	THM
		215M-60	220M-60	225M-60	230M-60	235M-60	240M-60	245M-60	250M-60	255M-60	260M-60
Peak power(Pmax)	W	215	220	225	230	235	240	245	250	255	260
Maximum power voltage(Vmp)	V	29.2	29.2	29.7	29.7	30.2	30.2	30.2	30.7	30.7	30.7
Open circuit voltage(Voc)	V	36.2	36.2	36.8	36.8	37.4	37.4	37.4	38.1	38.1	38.1
Maximum power current(Imp)	A	7.36	7.53	7.58	7.74	7.78	7.94	8.11	8.14	8.31	8.47
Short circuit current(Isc)	A	7.95	8.11	8.18	8.35	8.4	8.58	8.76	8.8	8.97	9.14
Maximum system voltage	V	1000	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	-0.438
CurrentTemperature and Coefficient	%/°C	0.037	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	-0.297

## Mechanical Characteristics

Dimension(mm)	1640×992×50
Weight(kg)	19.5
Solar cells	60 cells (156×156mm)configured geometrically for a 6×10 matrix connected in series
Output cable length(mm)	900
Construction	Front:High transmission 3.2 mm tempered glass Rear:White backsheet; Encapsulant: EVA.