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# EnergyPal

## **Solar Panel Guide Specification Data Sheet**

**Jiangsu Tihein Photovoltaic Technology Co., Ltd.**

**THM260M-310M-72**

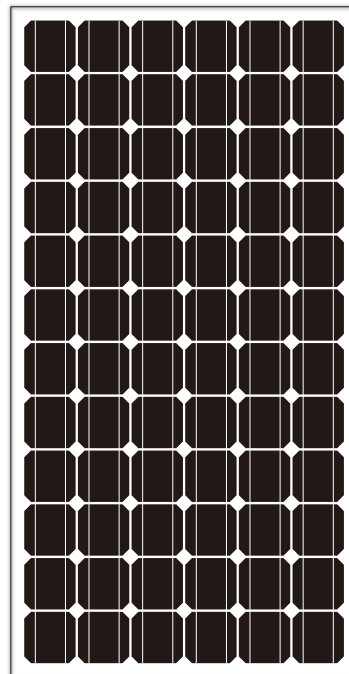
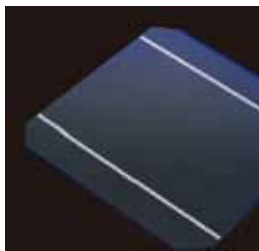
**THM 280M-72**

Also available on the web at  
[EnergyPal.com/jiangsu-tihein-photovoltaic-technology-co-ltd-solar-panels/thm-280m-72](http://EnergyPal.com/jiangsu-tihein-photovoltaic-technology-co-ltd-solar-panels/thm-280m-72)

## 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

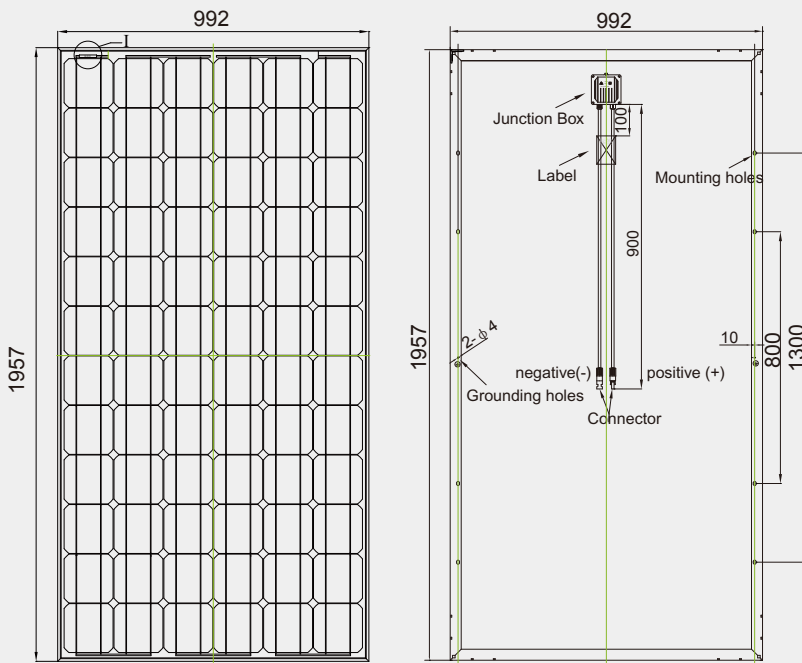
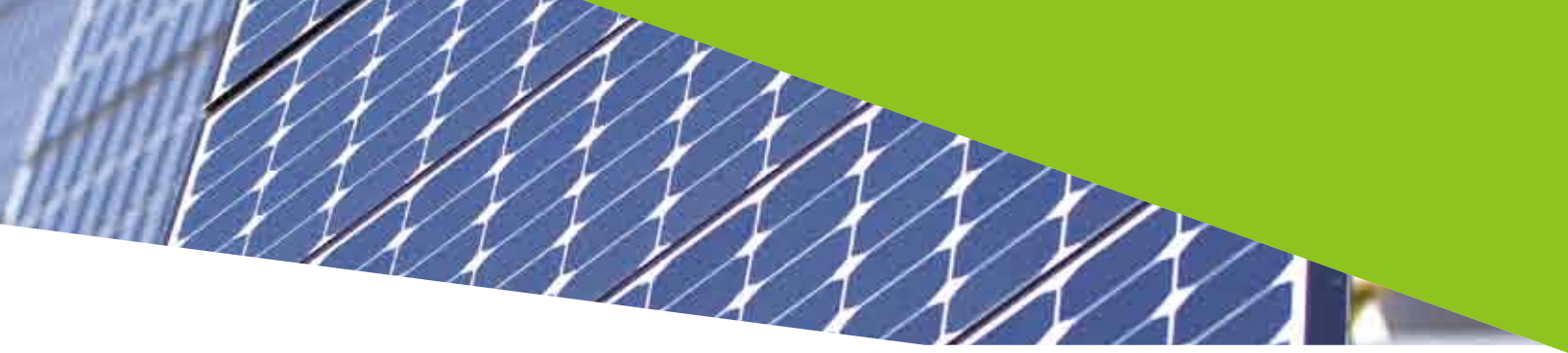
### Safety and Quality:

- 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

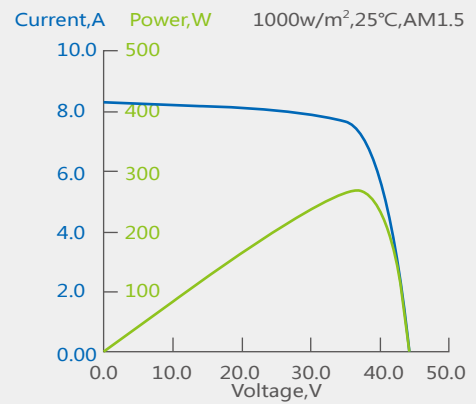
### Qualification Test

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 (260-310watt monocrystalline silicon module)

Type	Unit	THM	THM	THM	THM	THM	THM	THM	THM	THM	THM	THM
		260M-72	265M-72	270M-72	275M-72	280M-72	285M-72	290M-72	295M-72	300M-72	305M-72	310M-72
Peak power(Pmax)	W	260	265	270	275	280	285	290	295	300	305	310
Maximum power voltage(Vmp)	V	35.2	35.7	35.7	35.7	36.2	36.2	36.2	36.7	36.7	36.7	37.2
Open circuit voltage(Voc)	V	43.6	44.3	44.3	44.3	44.9	44.9	44.9	45.5	45.5	45.5	46.1
Maximum power current(Imp)	A	7.38	7.42	7.56	7.7	7.73	7.87	8.01	8.04	8.17	8.31	8.33
Short circuit current(Isc)	A	7.95	8.02	8.16	8.31	8.34	8.5	8.65	8.68	8.83	8.98	9
Maximum system voltage	V	1000	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	-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	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	-0.297

## Mechanical Characteristics

Dimension(mm)	1957×992×50
Weight(kg)	22.5
Solar cells	72 cells (156×156mm)configured geometrically for a 6×12 matrix connected in series
Output cable length(mm)	900
Construction	Front:High transmission 3.2 mm tempered glass Rear:White backsheet; Encapsulant: EVA.