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Solar Panel Guide Specification Data Sheet

Jiangsu Tihein Photovoltaic Technology Co., Ltd.

THM250P-300P-72

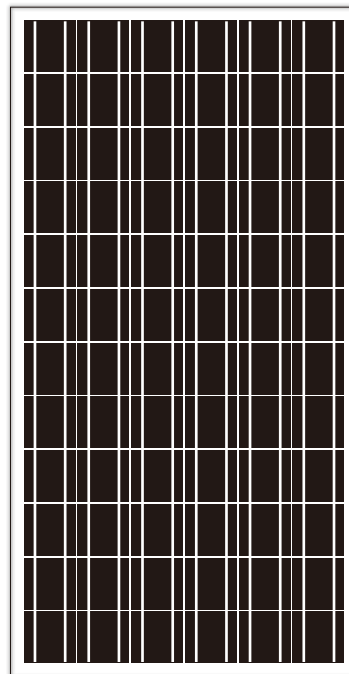
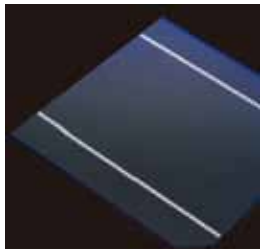
THM 275P-72

Also available on the web at
[EnergyPal.com/jiangsu-tihein-photovoltaic-technology-co-ltd-solar-panels/thm-275p-](http://EnergyPal.com/jiangsu-tihein-photovoltaic-technology-co-ltd-solar-panels/thm-275p-72)

Tihein Solar Series Poly-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

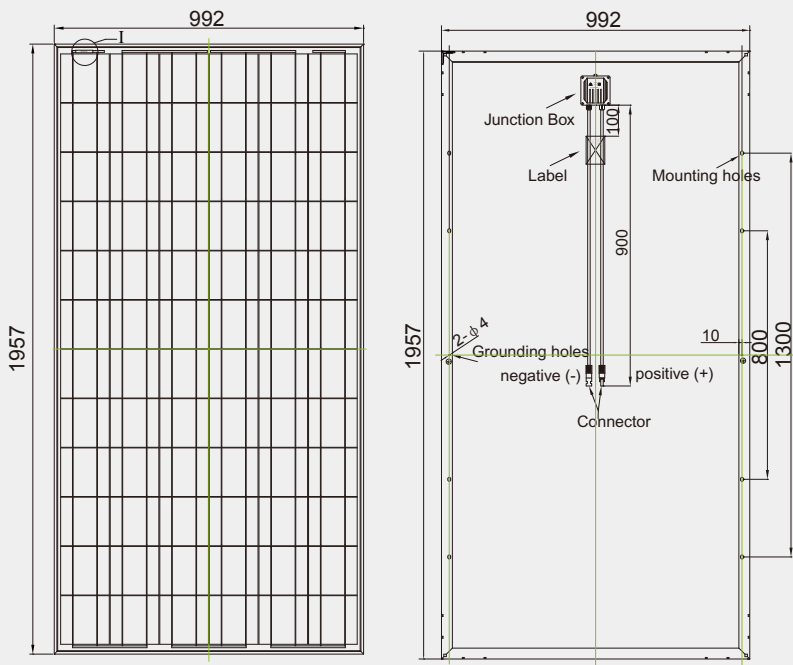
Safety and Quality:

- 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

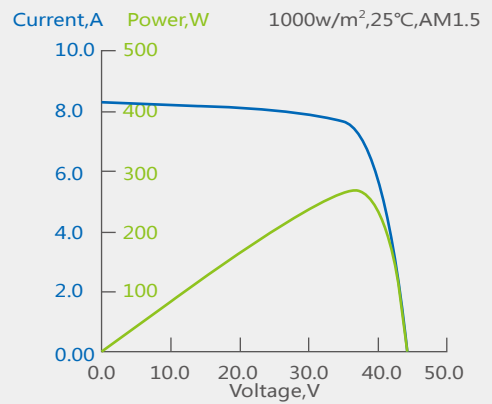
Qualification Test

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 (250-300watt polycrystalline silicon module)

Type	Unit	THM 250P-72	THM 255P-72	THM 260P-72	THM 265P-72	THM 270P-72	THM 275P-72	THM 280P-72	THM 285P-72	THM 290P-72	THM 295P-72	THM 300P-72
Peak power(Pmax)	W	250	255	260	265	270	275	280	285	290	295	300
Maximum power voltage(Vmp)	V	35	35	35	35.5	35.5	35.5	36	36	36	36.5	36.5
Open circuit voltage(Voc)	V	43.4	43.4	43.4	44	44	44	44.6	44.6	44.6	45.3	45.3
Maximum power current(Imp)	A	7.14	7.29	7.43	7.46	7.61	7.75	7.78	7.92	8.05	8.08	8.22
Short circuit current(Isc)	A	7.71	7.87	7.95	8.06	8.14	8.3	8.4	8.55	8.61	8.72	8.79
Maximum system voltage	V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
PowerTemperature and Coefficient	%/°C	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47	-0.47
CurrentTemperature and Coefficient	%/°C	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
VoltageTemperature and Coefficient	%/°C	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33

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.