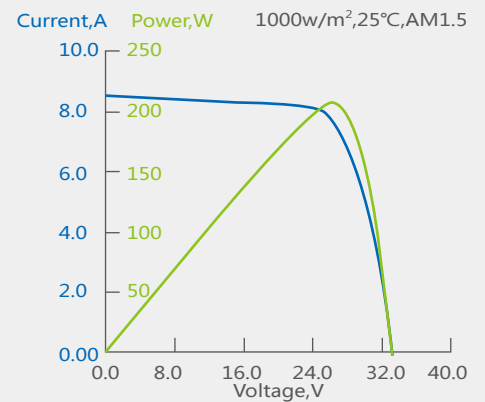


### IV CURVES



### Electrical Characteristics (180-225watt polycrystalline silicon module)

Type	Unit	THM	THM	THM	THM	THM	THM	THM	THM	THM	THM
		180P-54	185P-54	190P-54	195P-54	200P-54	205P-54	210P-54	215P-54	220P-54	225P-54
Peak power(Pmax)	W	180	185	190	195	200	205	210	215	220	225
Maximum power voltage(Vmp)	V	25.5	25.5	26	26	26.5	26.5	27	27	27.5	27.5
Open circuit voltage(Voc)	V	32.39	32.39	33.02	33.02	33.66	33.66	34.29	34.29	34.93	34.93
Maximum power current(Imp)	A	7.06	7.25	7.31	7.5	7.55	7.74	7.78	7.96	8	8.18
Short circuit current(Isc)	A	7.55	7.69	7.81	7.95	8.08	8.28	8.32	8.52	8.64	8.83
Maximum system voltage	V	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
CurrentTemperature and Coefficient	%/°C	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

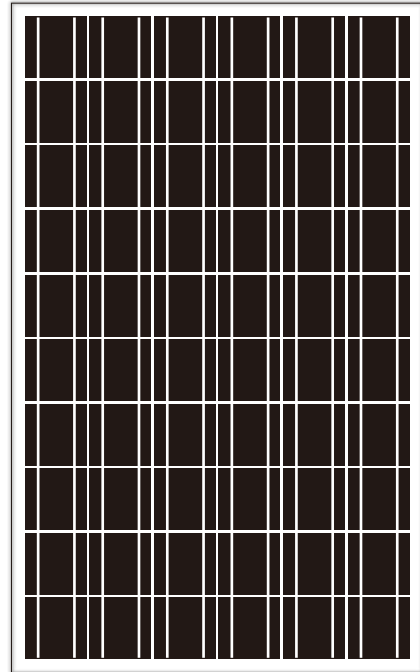
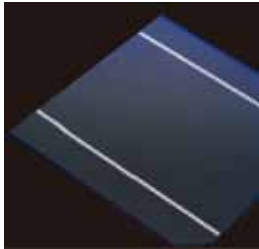
### Mechanical Characteristics

Dimension(mm)	1482×992×50
Weight(kg)	18
Solar cells	54 cells (156×156mm)configured geometrically for a 6×9 matrix connected in series
Output cable length(mm)	900
Construction	Front:High transmission 3.2 mm tempered glass Rear:White backsheet; Encapsulant: EVA.

## 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

