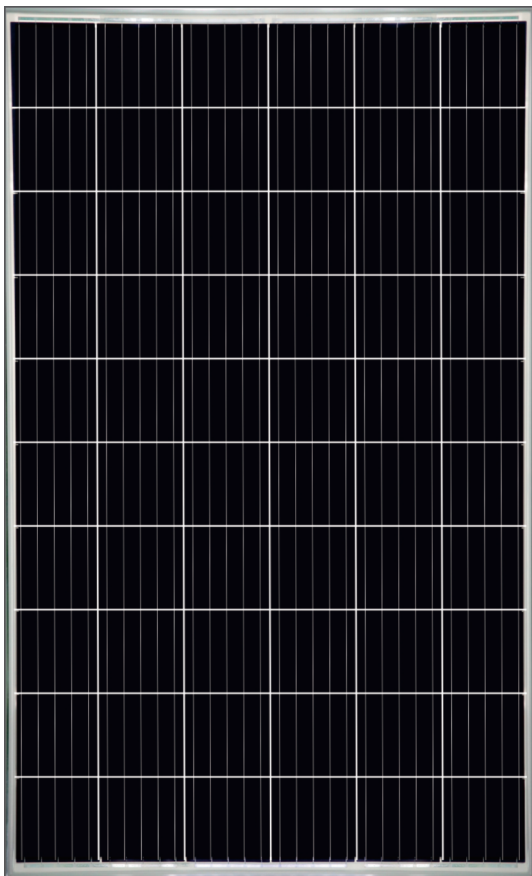


POLYCRYSTALLINE SOLAR MODULE

TW270PW-60



Advantages



High power
High power output, increasing power generation.



Excellent Low-light Performance
In low-radiation environment such as morning, evening or rainy day, its generating capacity is higher than normal module.



Perfect Self-cleaning Performance
Reducing the power loss due to dust cover (dirt effect)

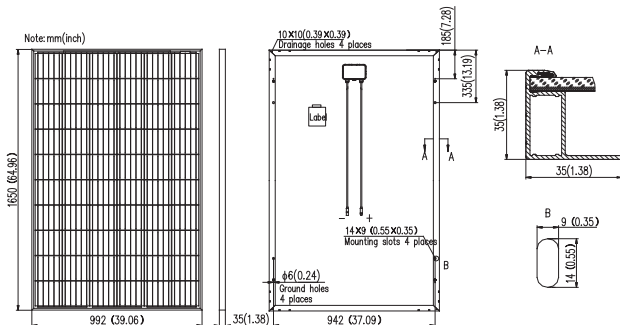
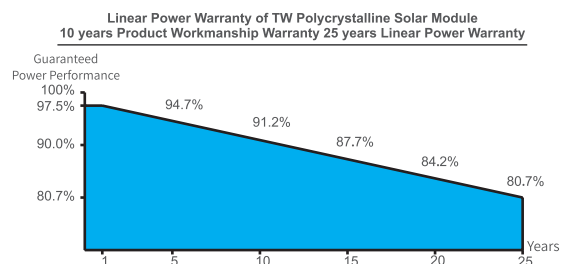


Strict quality control
Advanced fully automatic production line with advance quality inspection control 100% EL inspection during produce and before delivery. 0~+5% positive power output, optimizing the current classified, make sure the modules matching system performance and get more power output.



Excellent Reliability and Weather Resistance

- All modules passed TÜV Rheinland certification and the rigorous TÜV Rheinland diversity test.
- Certified to pass the highest (Level Six) salt mist corrosion, ammonia, 1000h PID, sand and dust abrasion testing.
- Certified to pass mechanical load resistance testing for special conditions, such as snow loads (5400Pa), wind loads (2400Pa) and allowable hail load testing (Diameter 45mm hailstones at 30.7m/s).



MECHANICAL CHARACTERISTICS

Dimensions	1650×992×35 mm (L×W×H)
Weight	18.2 kg
Front Glass	White toughened safety glass, 3.2mm
Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Cells	60pcs 156.75×156.75mm Polycrystalline solar 5 busbars cells
Backsheet	Composite film
Frame	Anodized aluminum profile
Junction Box	Rated current:13A, IP67, TUV&UL
Cable	Length 900mm, 1×4mm²
Connector	Compatible with MC4

TEMPERATURE CHARACTERISTICS

NOCT	45°C(±2°C)
Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	0.052%/°C
Temperature Coefficient of Pm	-0.43%/°C

MAXIMUM RATINGS

Maximum System Voltage [V]	DC 1000(IEC) DC1000(UL)
Series Fuse Rating [A]	20
Maximum Surface Load Capacity [Pa]	5,400
Temperature Range [°C]	- 40 to + 85
Withstanding Hail	Maximum diameter of 45 mm with impact speed of 30.7 m·s ⁻¹

ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS(STC)

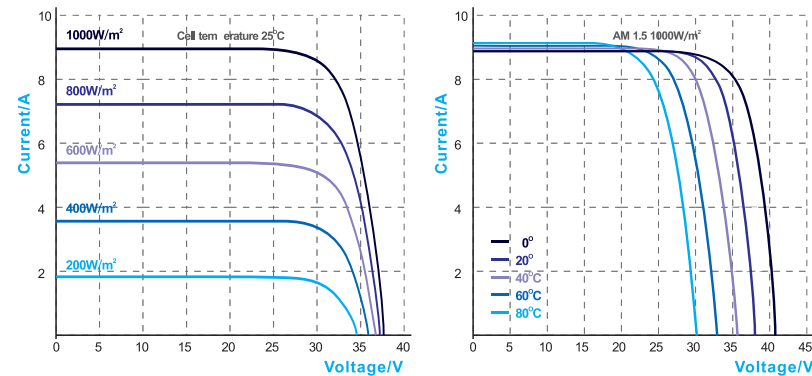
Module Type: TW 270 PW-60	290	285	280	275	270	265	260	255
Maximum Power-Pm [W]	290	285	280	275	270	265	260	255
Open Circuit Voltage-Voc [V]	38.7	38.6	38.5	38.4	38.3	38.2	38.1	38.0
Short Circuit Current-Isc [A]	9.42	9.35	9.28	9.21	9.14	9.07	9.00	8.93
Maximum Power Voltage-Vm [V]	31.7	31.5	31.3	31.1	31.0	30.8	30.6	30.4
Maximum Power Current-Im [A]	9.15	9.05	8.95	8.84	8.72	8.60	8.50	8.39
Module Efficiency-η [%]	17.7	17.4	17.1	16.8	16.5	16.2	15.9	15.6

ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power-Pm [W]	209	206	203	200	197	194	191	188
Open Circuit Voltage-Voc [V]	35.7	35.5	35.3	35.1	34.9	34.7	34.5	34.3
Short Circuit Current-Isc [A]	7.76	7.68	7.60	7.52	7.52	7.44	7.36	7.28
Maximum Power Voltage-Vm [V]	29.1	28.9	28.7	28.5	28.3	28.1	27.9	27.7
Maximum Power Current-Im [A]	7.18	7.13	7.07	7.02	6.96	6.90	6.85	6.79

Note: 1. Standard Test Conditions (STC): irradiance 1000 W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;
2. Normal Operating Cell Temperature (NOCT): Irradiance 800W/ m²; wind speed 1m/s ,cell temperature 45°C; ambient temperature 20°C.
3. Tolerance of Pm: 0~+5%, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±5%.

IV CURVE



OTHER CHARACTERISTICS

Packaging 30 pcs/box;
840 pcs/40' container;
1440 pcs/flat car

Warranty 10 year Product
Workmanship
Warranty

25 year Linear
Power Warranty

*Declaration:With the technical progress and product updates,there exists a deviation between the technical parameter of the TW Solar's late products and the technical parameter in this specification,The TW Solar reserves the right to adjust the technical parameter at any time without notifying the customers. TW Solar has the ultimate power of interpretation to this technical specification.