

Specifications of TW305P-72 Polycrystalline solar module

Electrical Characteristics at Standard Test Conditions(STC)					
Module Type: TW ___ P-72	325W	320W	315W	310W	305W
Peak Power Watts-Pm [W]	325	320	315	310	305
Open Circuit Voltage-Voc [V]	45.6	45.5	45.4	45.3	45.2
Short Circuit Current-Isc [A]	9.28	9.2	9.12	9.04	8.96
Maximum Power Voltage-Vm [V]	37.1	36.9	36.6	36.4	36.1
Maximum Power Current-Im [A]	8.75	8.67	8.6	8.52	8.45
Module Efficiency-η [%]	16.80	16.50	16.30	16.00	15.80
Electrical Characteristics at Normal Operating Cell Temperature(NOCT)					
Peak Power Watts-Pm [W]	225	222	219	216	212
Open Circuit Voltage-Voc [V]	41.4	41.3	41.1	41.0	40.8
Short Circuit Current-Isc [A]	7.26	7.24	7.19	7.01	6.95
Maximum Power Voltage-Vm [V]	33.4	33.2	32.8	32.5	32.3
Maximum Power Current-Im [A]	6.74	6.69	6.67	6.65	6.56
<small>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 1 m/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%.</small>					

Temperature Characteristics	
Normal Operating Cell Temperature	45°C (±2°C)
Temperature Coefficient of Voc	-0.31%/°C
Temperature Coefficient of Isc	+0.041%/°C
Temperature Coefficient of Pm	-0.43%/°C

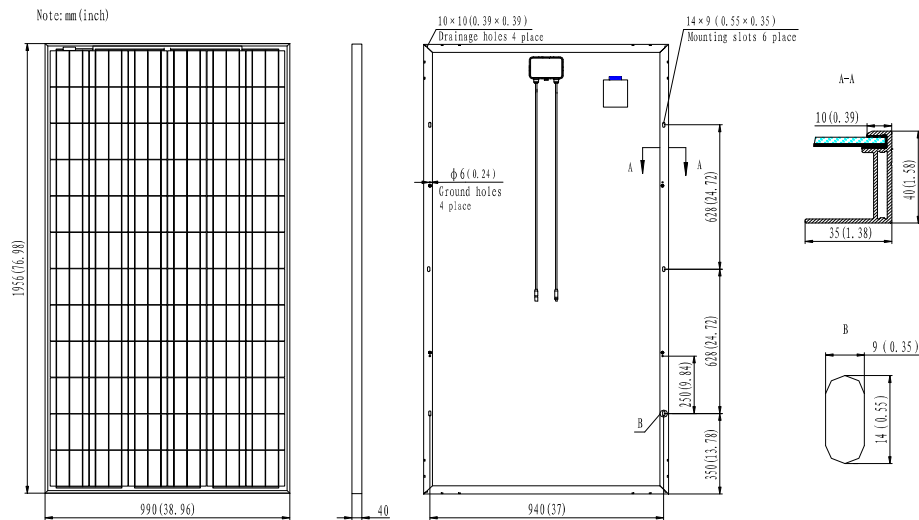
Mechanical Characteristics	
Dimensions	1956×990×40mm (L×W×H)
Weight	27.5kg
Front Glass	White toughened safety glass, 4 mm
Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Cells	6×12 pieces 156×156mm polycrystalline solar cells series strings
Back Sheet	Composite film
Frame	Anodized aluminum profile
Junction Box	Rated current ≥ 12A, IP 67, TUV&UL

Cable	Length 900 mm, 1×4 mm ²
Connector	Compatible with MC4

Maximum Ratings	
Maximum System Voltage [V]	DC 1000(IEC); DC 600(UL)
Series Fuse Rating [A]	20
Maximum Surface Load Capacity [Pa]	5,400
Temperature Range [°C]	- 40 to + 85
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m·s ⁻¹

Other Characteristics	
Packaging	26pcs/box; 624pcs/40'container
Warranty	10 year Product Workmanship Warranty 25 year Linear Power Warranty

Dimensions



I-V Curves

