

## Specifications of TW315M-72 Monocrystalline solar module

<b>Electrical Characteristics at Standard Test Conditions(STC)</b>					
Module Type: TW ___ M-72	320W	315W	310W	305W	300W
Peak Power Watts-Pm [W]	320	315	310	305	300
Open Circuit Voltage-Voc [V]	45.5	45.4	45.3	45.2	45.2
Short Circuit Current-Isc [A]	9.11	9.03	8.95	8.88	8.81
Maximum Power Voltage-Vm [V]	37.1	36.9	36.7	36.5	36.2
Maximum Power Current-Im [A]	8.63	8.54	8.45	8.36	8.28
Module Efficiency-η [%]	16.52	16.26	16.00	15.75	15.49
<b>Electrical Characteristics at Normal Operating Cell Temperature(NOCT)</b>					
Peak Power Watts-Pm [W]	230	227	224	220	217
Open Circuit Voltage-Voc [V]	41.4	41.3	41.2	41.2	41.1
Short Circuit Current-Isc [A]	7.25	7.20	7.16	7.10	7.02
Maximum Power Voltage-Vm [V]	33.4	33.3	33.2	33.2	33.0
Maximum Power Current-Im [A]	6.88	6.81	6.74	6.63	6.57
<small>Note: 1. Standard Test Conditions [STC]: irradiance 1000 W/m<sup>2</sup>; AM 1.5; ambient temperature 25°C according to EN 60904-3;                  2. Normal Operating Cell Temperature (NOCT): Irradiance 800W/ m<sup>2</sup>; 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>					

<b>Temperature Characteristics</b>	
Normal Operating Cell Temperature	45°C (±2°C)
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pm	-0.42%/°C

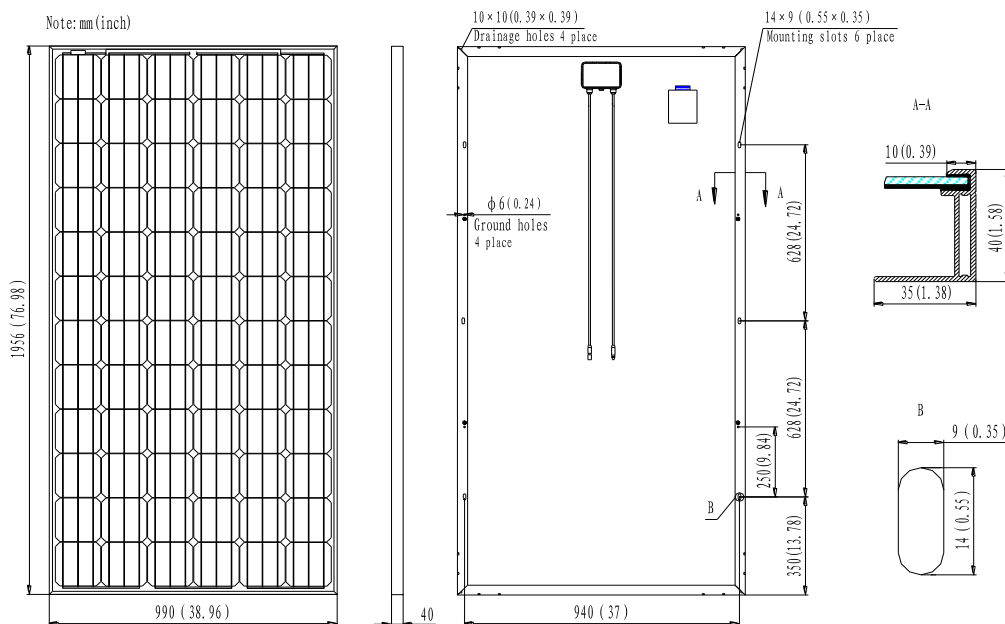
<b>Mechanical Characteristics</b>	
Dimensions	1956×990×40mm (L×W×H)
Weight	27.5kg
Front Glass	White toughened safety glass, 4 mm
Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Cells	6×12 pieces 156×156mm monocrystalline solar cells series strings
Back Sheet	Composite film
Frame	Anodized aluminum profile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

Cable	Length 900 mm, 1×4 mm <sup>2</sup>
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 <sup>-1</sup>

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

## Dimensions



## I-V Curves

