

Specifications of TW310MWP-60 Monocrystalline solar module

Electrical Characteristics at Standard Test Conditions(STC)					
Module Type: TW *** MWP-60	315	310	305	300	295
Maximum Power-Pm [W]	315	310	305	300	295
Open-Circuit Voltage-Voc [V]	40.0	39.9	39.8	39.7	39.6
Short-Circuit Current-Isc [A]	9.87	9.80	9.73	9.66	9.59
Maximum Power Voltage-Vm [V]	32.9	32.7	32.5	32.3	32.1
Maximum Power Current-Im [A]	9.57	9.48	9.38	9.29	9.19
Module Efficiency-η [%]	19.24	18.94	18.63	18.33	18.02
Electrical Characteristics at Nominal Module Operating Temperature (NMOT)					
Maximum Power-Pm [W]	232	228	224	221	217
Open-Circuit Voltage-Voc [V]	37.5	37.4	37.3	37.2	37.1
Short-Circuit Current-Isc [A]	7.99	7.93	7.87	7.82	7.76
Maximum Power Voltage-Vm [V]	30.9	30.7	30.5	30.3	30.1
Maximum Power Current-Im [A]	7.51	7.44	7.36	7.29	7.21

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

Temperature Characteristics	
NMOT	45°C (±2°C)
Temperature Coefficient of Voc	-0.31%/°C
Temperature Coefficient of Isc	0.058%/°C
Temperature Coefficient of Pm	-0.40%/°C

Maximum Ratings Parameter	
Maximum System Voltage [V]	DC 1000(IEC); DC1000(UL)
Maximum Fuse Rated Current [A]	20
Maximum Surface Load Capacity [Pa]	5,400
Operating Temperature [°C]	- 40 to + 85
Withstanding Hail	Maximum diameter of 25mm with impact speed of 23m·s ⁻¹

Other Characteristics	
Packaging	30pcs/box; 28box/40' container,840pcs/40' container; 12box/20' container,360pcs/20' container
Warranty	10 year Product Workmanship Warranty 25 year Linear Power Warranty

Mechanical Characteristics	
Dimensions	1650×992×35mm (L×W×H)
Weight	18.2kg
Front Glass	White toughened safety glass, 3.2mm
Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Cells	60pcs 156.75×156.75mm Monocrystalline solar 5BB PERC cells
Backsheet	Composite film,Color according to customer needs
Frame	Anodized aluminum profile,Color according to customer needs
Junction Box	Rated current:16A, IP67, TUV&UL
Cable	1×4mm ² ,The cable length is based on customer needs
Connector	Compatible with MC4

