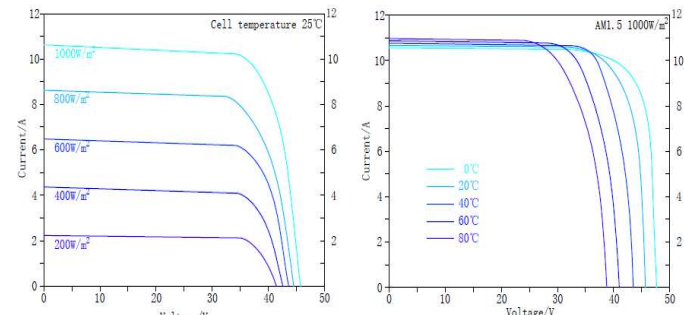
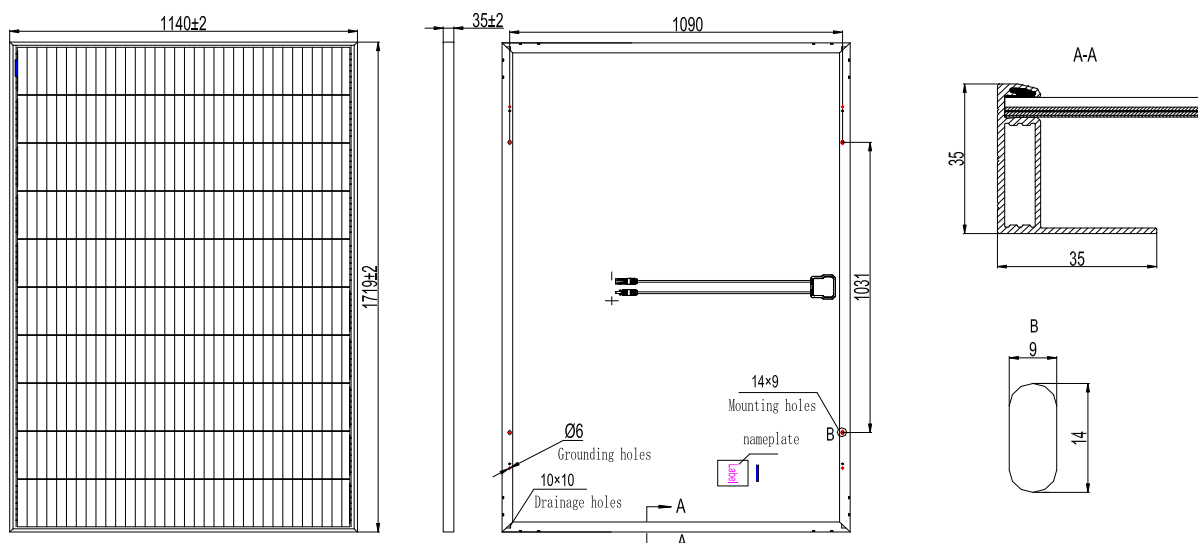


Specification of THxxxPM5-60SB Monocrystalline PERC shingled solar module

Electrical Characteristics at Standard Test Conditions(STC)							Temperature Characteristics	
Module Type:TH *** PM5-60SB	410	405	400	395	390	385	NMOT	42.3°C (±2°C)
Maximum Power-Pm [W]	410	405	400	395	390	385	Temperature Coefficient of Voc	-0.27%/°C
Open Circuit Voltage-Voc [V]	46.6	46.5	46.4	46.3	46.3	46.2	Temperature Coefficient of Isc	0.04%/°C
Short Circuit Current-Isc [A]	11.07	11.02	10.97	10.92	10.87	10.82	Temperature Coefficient of Pm	-0.34%/°C
Maximum Power Voltage-Vm [V]	38.8	38.7	38.6	38.5	38.5	38.4	Maximum Ratings	
Maximum Power Current-Im [A]	10.57	10.47	10.36	10.26	10.13	10.03	Maximum System Voltage [V]	DC 1500(IEC); DC 1500(UL)
Module Efficiency-η [%]	20.9	20.7	20.4	20.2	19.9	19.6	Series Fuse Rating [A]	20
Electrical Characteristics at NMOT							Maximum Surface Load Capacity [Pa]	
Maximum Power-Pm [W]	309	305	301	297	294	290	Temperature Range [°C]	- 40 to + 85
Open Circuit Voltage-Voc [V]	44.4	44.3	44.2	44.1	44.1	44.0	Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m·s ⁻¹
Short Circuit Current-Isc [A]	8.93	8.89	8.85	8.81	8.77	8.73		
Maximum Power Voltage-Vm [V]	37.0	36.9	36.8	36.7	36.7	36.6	Fire class rating	Class C
Maximum Power Current-Im [A]	8.35	8.27	8.18	8.10	8.00	7.92		
							Other Characteristics	
Note: 1. Standard Test Conditions [STC]: irradiance 1000 W/m ² ; AM 1.5; ambient temperature 25°C according to EN 60904-3; 2. Nominal Module Operating Temperature (NMOT): Irradiance 800W/ m ² ; 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%.							Packaging	31 pcs/box;806pcs/40'container;1240pcs/flat car
							Warranty	15 years Product Workmanship Warranty 25 years limited warranty on Power Output , the first year of power loss will be within 2%, and it will maintain loss within 0.55% annually from the 2 nd to the 25 th year . The last year power output is not less than 84.8%.
Mechanical Characteristics							I-V curve	
Dimensions	1719×1140×35mm (L×W×H)							
Weight	22kg							
Front Glass	White toughened safety glass, 3.2mm							
Encapsulation	EVA							
Cells	PERC Mono-crystalline 166×166mm							
Back Sheet	high weatherability blacksheet							
Frame	Anodized aluminum profile							
Junction Box	Rated current:20A, IP67, TUV&UL							
Cable	Length 1000mm, 1×4mm ²							
Connector	Genuine MC4 evo2							

Drawing



Manufactured in China

Declaration:With the technical progress and product updates,there exists a deviation between the technical parameter of the TW Solar's future 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 reserves the final right of interpretation.