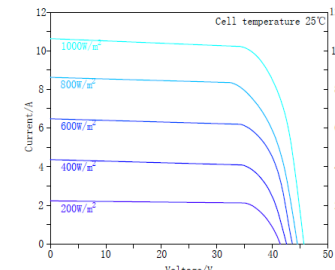
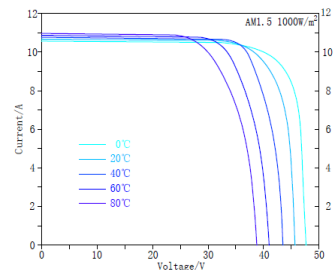
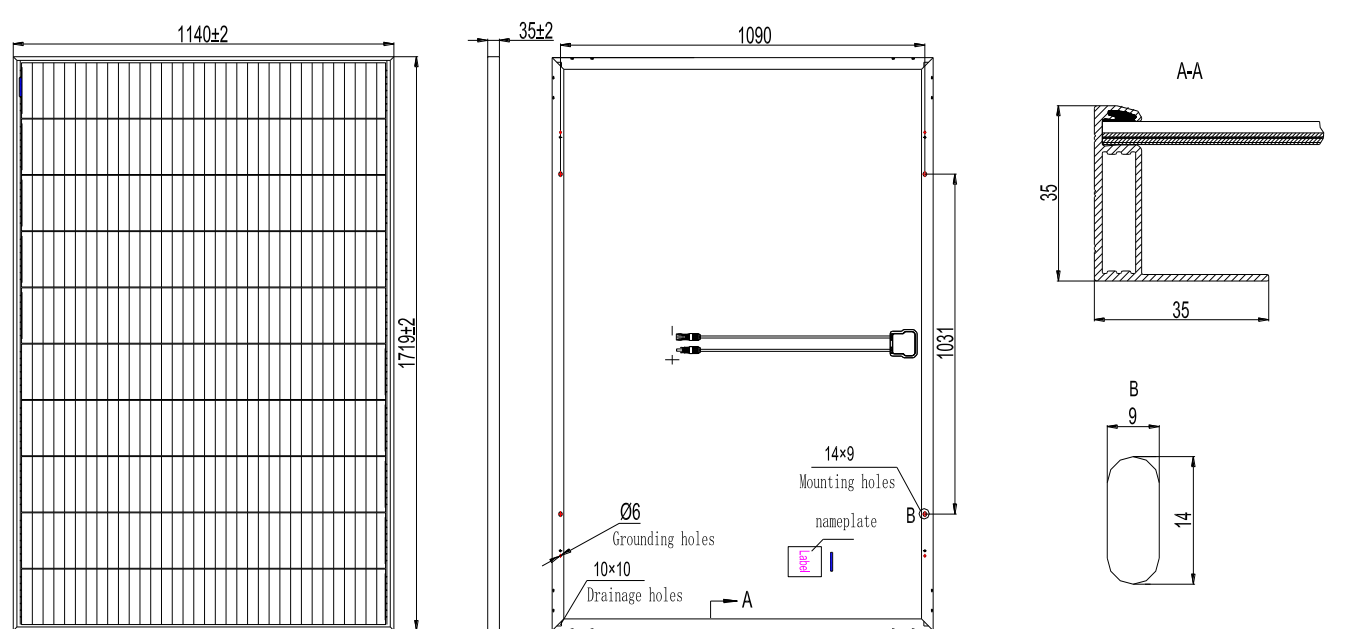


Specification of TH385PM5-60SB Monocrystalline PERC solar module

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 Power Current-Im [A]	10.57	10.47	10.36	10.26	10.13	10.03	Maximum Ratings	
Module Efficiency-η [%]	20.9	20.7	20.4	20.2	19.9	19.6	Maximum System Voltage [V]	DC 1500/1000(IEC);
Electrical Characteristics at NMOT							Series Fuse Rating [A]	20
Maximum Power-Pm [W]	309	305	301	297	294	290	Maximum Surface Load Capacity [Pa]	5,400
Open Circuit Voltage-Voc [V]	44.4	44.3	44.2	44.1	44.1	44.0	Temperature Range [°C]	- 40 to + 85
Short Circuit Current-Isc [A]	8.93	8.89	8.85	8.81	8.77	8.73	Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m·s ⁻¹
Maximum Power Voltage-Vm [V]	37.0	36.9	36.8	36.7	36.7	36.6		
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		
Weight	22kg		
Front Glass	AR coating tempered glass, 3.2mm		
Frame	Anodized aluminum profile		
Cells	Mono-crystalline solar cell		
Cell Orientation	340 (34*10)		
Junction Box	IP68, two diodes		
Cable	4mm ² , 1000mm (Be customized by customers)		

Drawing	
	

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, Runtech Solar reserves the final right of interpretation.