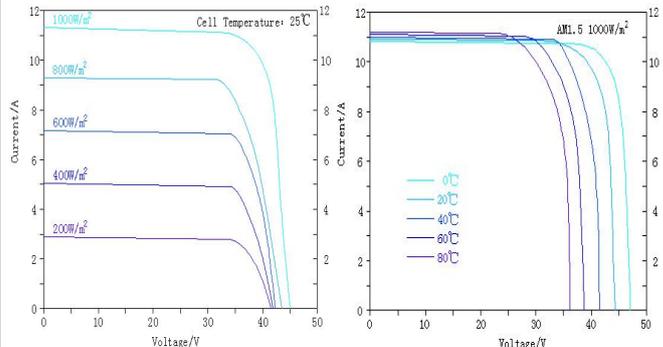
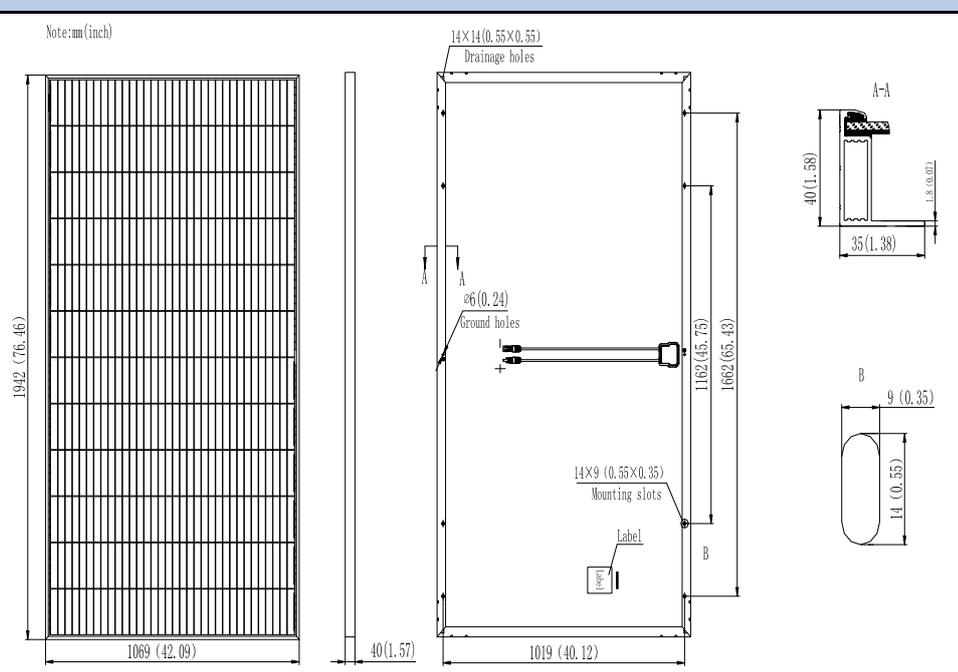


# Specification of TH400PM5-72S Monocrystalline PERC shingled solar module

Electrical Characteristics at Standard Test Conditions(STC)							Temperature Characteristics		
Module Type:TH *** PM5-72S	420	415	410	405	400	395	NMOT	42.3°C ( ±2°C )	
Maximum Power-Pm [W]	420	415	410	405	400	395	Temperature Coefficient of Voc	-0.27%/°C	
Open Circuit Voltage-Voc [V]	45.5	45.4	45.3	45.3	45.2	45.2	Temperature Coefficient of Isc	0.04%/°C	
Short Circuit Current-Isc [A]	11.53	11.47	11.43	11.39	11.35	11.31	Temperature Coefficient of Pm	-0.34%/°C	
Maximum Power Voltage-Vm [V]	37.7	37.6	37.5	37.4	37.3	37.2			
Maximum Power Current-Im [A]	11.14	11.04	10.93	10.83	10.72	10.62			
Module Efficiency-η [%]	20.2	20.0	19.7	19.5	19.3	19.0			
Electrical Characteristics at NMOT							Maximum Ratings		
Maximum Power-Pm [W]	313	309	305	302	298	294	Maximum System Voltage [V]	DC 1500(IEC)	
Open Circuit Voltage-Voc [V]	43.1	43.0	42.9	42.9	42.8	42.8	Series Fuse Rating [A]	20	
Short Circuit Current-Isc [A]	9.30	9.26	9.22	9.19	9.16	9.13	Maximum Surface Load Capacity [Pa]	5,400	
Maximum Power Voltage-Vm [V]	35.7	35.6	35.5	35.4	35.3	35.2	Temperature Range [°C]	- 40 to + 85	
Maximum Power Current-Im [A]	8.77	8.68	8.60	8.52	8.44	8.35	Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m·s <sup>-1</sup>	
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. Nominal Module Operating Temperature (NMOT): Irradiance 800W/ m <sup>2</sup> ; 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%.							Other Characteristics		
							Packaging	26 pcs/box;624pcs/40'container;832pcs/flat car	
							Warranty	10 year Product Workmanship Warranty 25 year Linear Power Warranty	
Mechanical Characteristics							I-V Curve		
Dimensions	1942×1069×40mm (L×W×H)								
Weight	24.0kg								
Front Glass	White toughened safety glass, 3.2mm								
Encapsulation	EVA								
Cells	6" PERC Mono-crystalline silicon solar cells(in increment								
Back Sheet	co-extrusion backsheet								
Frame	Anodized aluminum profile								
Junction Box	Rated current:15A, IP67, TUV&UL								
Cable	Length 1200mm, 1×4mm <sup>2</sup>								
Connector	PV-KST4-EVO2/xy_UR、 PV-KBT4-EVO2/xy_UR+Staubli; 05-8+Renhe.								

Drawing	Certificates
	

**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.  
Manufactured in China