

Specification of TH335PM5-60S Monocrystalline PERC shingled solar module (All Black)


Shingled vs Standard

The monocrystalline cells are shingled. This means that the surface is used more efficiently and more sunlight can be reached.

 High output

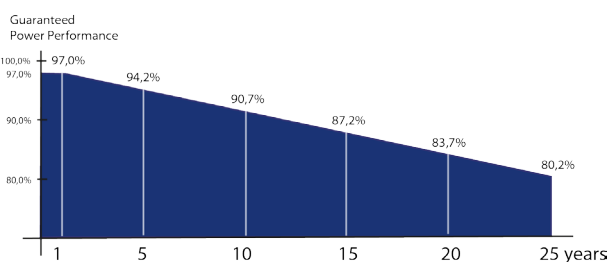
+ 15% more output

 System cost reduced

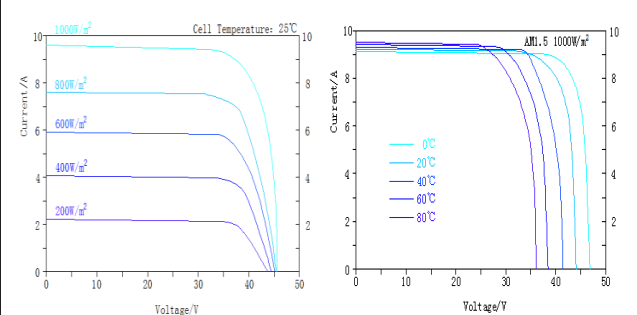
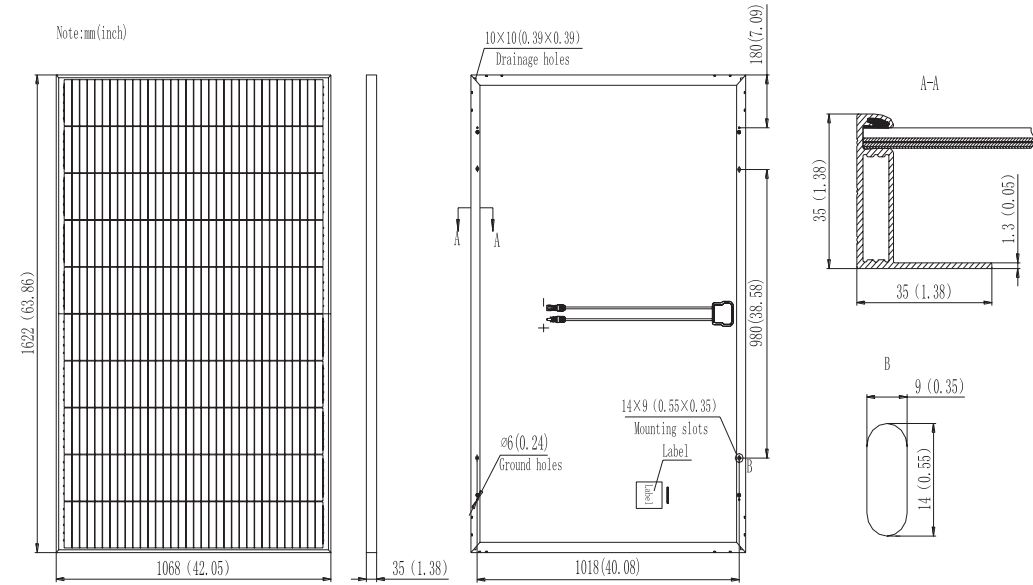
10% Reduction in BOS and installation cost

 Aesthetically pleasing

Uniform cell layout and symmetric module design



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Electrical Characteristics at Standard Test Conditions(STC)						
Module Type:TH *** PM5-60S	340	335	330	325	320	315
Maximum Power-Pm [W]	340	335	330	325	320	315
Open Circuit Voltage-Voc [V]	45.2	45.2	45.1	45.1	45.0	44.9
Short Circuit Current-Isc [A]	9.51	9.49	9.45	9.42	9.39	9.36
Maximum Power Voltage-Vm [V]	37.4	37.3	37.2	37.1	37.0	36.9
Maximum Power Current-Im [A]	9.09	8.98	8.87	8.76	8.65	8.54
Module Efficiency-η [%]	19.6	19.3	19.0	18.8	18.5	18.2
Electrical Characteristics at NMOT						
Maximum Power-Pm [W]	253	249	246	242	238	235
Open Circuit Voltage-Voc [V]	42.8	42.8	42.7	42.7	42.6	42.5
Short Circuit Current-Isc [A]	7.68	7.66	7.63	7.61	7.58	7.56
Maximum Power Voltage-Vm [V]	35.4	35.3	35.2	35.1	35.0	34.9
Maximum Power Current-Im [A]	7.15	7.07	6.98	6.89	6.81	6.72
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%.						
Mechanical Characteristics						
Dimensions	1622×1068×35 mm (L×W×H)					
Weight	19.8kg					
Front Glass	White toughened safety glass, 3.2mm					
Encapsulation	EVA					
Cells	6" PERC Mono-crystalline silicon solar cells (in increment of 5)					
Back Sheet	co-extrusion backsheet (Black)					
Frame	Anodized aluminum profile (Black)					
Junction Box	Rated current:15A, IP67, TUV&UL					
Cable	Length 1000mm, 1×4mm ²					
Connector	MC4 Original					
Temperature Characteristics						
NMOT	42.3°C (±2°C)					
Temperature Coefficient of Voc	-0.31%/°C					
Temperature Coefficient of Isc	0.05%/°C					
Temperature Coefficient of Pm	-0.40%/°C					
Maximum Ratings						
Maximum System Voltage [V]	DC 1500/1000(IEC); DC 1000(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 ⁻¹					
Other Characteristics						
Packaging	30 pcs/box; 840 pcs/40'container;1440pcs/flat car					
Warranty	12 year Product Workmanship Warranty					
	25 year Linear Power Warranty					
I-V Diagram						
						
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, TW Solar reserves the final right of interpretation.						