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Solar Panel Guide Specification Data Sheet

Tongwei Solar Co., Ltd.

TH400PM5-72S

TH410PM5-72S

Also available on the web at
EnergyPal.com/tongwei-solar-co-ltd-solar-panels/th410pm5-72s

TONGWEI MONO PERC TH330PM5 - 60S SHINGLED MODULE

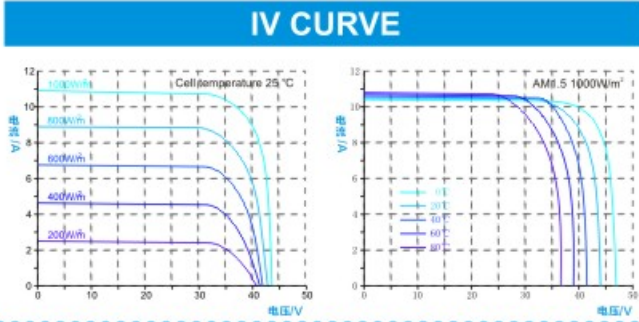
TH400PM5 - 72S TONGWEI MONO PERC SHINGLED MODULE

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
Frame	Anodized aluminum profile
Junction Box	Rated current:15A, IP67, TUV&UL
Cable	Length 1000mm, 1×4mm ²
Connector	Compatible with MC4

PACKING CONFIGURATION AND WARRANTY

Packaging	30 pcs/pallet; 180 pcs/20' GP; 840 pcs/40' HQ
Warranty	10 year product workmanship warranty 25 year linear power warranty



ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS(STC)

Module Type:TH 330 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]	7.67	7.66	7.63	7.60	7.58	7.55
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

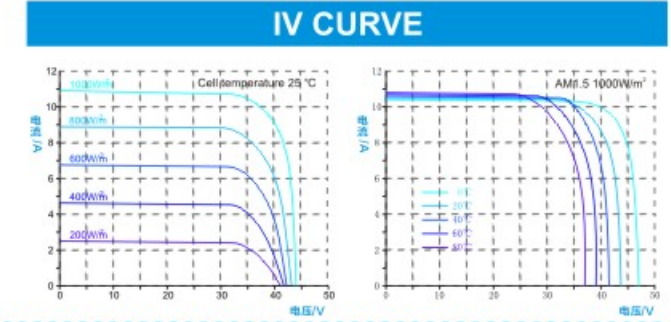
Note: 1. Standard Test Conditions [STC]: irradiance 1000 W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;
2. Nominal Module Operating Temperature (NMOT): Irradiance 800W/ m²; wind speed 1m/s , ambient temperature 20°C.
3. Tolerance of Pm: 0~+5%, Measuring uncertainty of power: ±3%. Performance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

MECHANICAL CHARACTERISTICS

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 of 5)
Back Sheet	co-extrusion backsheet
Frame	Anodized aluminum profile
Junction Box	Rated current:15A, IP67, TUV&UL
Cable	Length 1200mm, 1×4mm ²
Connector	Compatible with MC4

PACKING CONFIGURATION AND WARRANTY

Packaging	26 pcs/pallet; 130 pcs/20' GP; 624 pcs/40' HQ
Warranty	10 year product workmanship warranty 25 year linear power warranty



ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS(STC)

Module Type:TH 400 PM5-72S	415	410	405	400	395	390
Maximum Power-Pm [W]	415	410	405	400	395	390
Open Circuit Voltage-Voc [V]	45.4	45.3	45.3	45.2	45.2	45.1
Short Circuit Current-Isc [A]	11.47	11.43	11.39	11.35	11.31	11.27
Maximum Power Voltage-Vm [V]	37.6	37.5	37.4	37.3	37.2	37.1
Maximum Power Current-Im [A]	11.04	10.93	10.83	10.72	10.62	10.51
Module Efficiency-η [%]	20.0	19.7	19.5	19.3	19.0	18.8

ELECTRICAL CHARACTERISTICS AT NMOT

Maximum Power-Pm [W]	309	305	302	298	294	290
Open Circuit Voltage-Voc [V]	43.0	42.9	42.9	42.8	42.8	42.7
Short Circuit Current-Isc [A]	9.26	9.22	9.19	9.16	9.13	9.09
Maximum Power Voltage-Vm [V]	35.6	35.5	35.4	35.3	35.2	35.1
Maximum Power Current-Im [A]	8.68	8.60	8.52	8.44	8.35	8.27

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~+5%, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.

* Declaration:With the technical progress and product updates,there exists a deviation between the technical parameter of the TW Solar's late 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 has the ultimate power of interpretation to this technical specification.

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