



# Shingled monofacial module

## THxxxPM5 72SB



### Features of Module



**Shingling Technology**  
Innovative structure, low-temperature adhesive bonding, high-density layout.



**Beautiful Appearance**  
Uniform layout, better aesthetic.



**Superior Safety and Reliability**  
No hidden welding crack, low operating temperature, high pressure resistance.



**Low System Cost**  
High module efficiency, reducing system cost.



**Low Hot Spot Risk**  
Parallel circuit design reduces shading loss.



**Low Shading Loss**  
Full parallel arrangement brings high effective power generation hours.

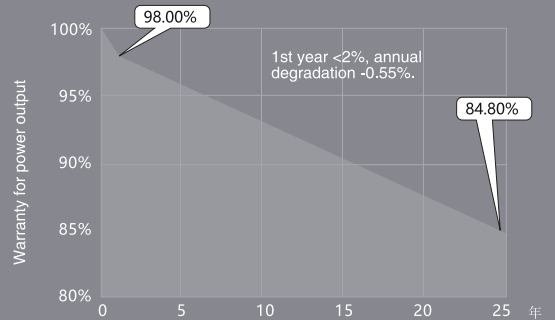


**Eco-friendly**  
Adhering to green philosophy, no fluorine and low lead.

### Linear Power Output Warranty

**15** 15-year warranty for materials.

**25** 25-year warranty for linear power output.



### Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701 (Salt), IEC62716 (Ammonia), IEC60068-2-68(Sand) ISO 9001:2015 / quality management system



### Electrical Characteristics (STC)

Module type: TH***PM5-72SB	490	485	480	475	470
Maximum power - Pm (W)	490	485	480	475	470
Open circuit voltage - Voc (V)	46.7	46.6	46.6	46.5	46.4
Short circuit current Isc (A)	13.28	13.22	13.16	13.10	13.04
Voltage at maximum power point - Vm (V)	38.9	38.8	38.8	38.7	38.6
Current at maximum power point - Im (A)	12.60	12.50	12.37	12.27	12.18
Module efficiency -η (%)	20.9	20.7	20.5	20.3	20.1

### Electrical Characteristics (NMOT)

Maximum power - Pm (W)	369	365	361	358	354
Open circuit voltage - Voc (V)	44.5	44.4	44.4	44.3	44.2
Short circuit current Isc (A)	10.72	10.67	10.62	10.57	10.52
Voltage at maximum power point - Vm (V)	37.1	37.0	37.0	36.9	36.8
Current at maximum power point - Im (A)	9.95	9.87	9.77	9.69	9.62

\* STC: Irradiation 1000W/m<sup>2</sup>; AM1.5; environmental temperature 25°C; tested according to EN 60904-3,  
 \* NMOT: irradiation 800W/m<sup>2</sup>; wind speed 1m/s; environmental temperature 20°C;  
 \* Pm tolerance: 0~+5W , power test uncertainty: ±3%; Voc[V], Isc[A], Vm[V] and Im[A] test tolerance: ±3%

### Mechanical Parameters

Size	2056x1140x35mm (LxWxH)
Weight	25.0kg
Front glass	3.2mm toughened glass
Cell	Monocrystalline PERC 166x166mm
Backplate	High weather resistance
Frame	Anodic alumina profile
Junction box	IP68, TUV, 2 diodes
Cable	1200mm long, 4mm <sup>2</sup> cross section, customizable
Connector	MC4 compatible / original EVO2
Packaging mode	31 pcs/pallet; 682 pcs/40'HQ; 992 pcs/truck

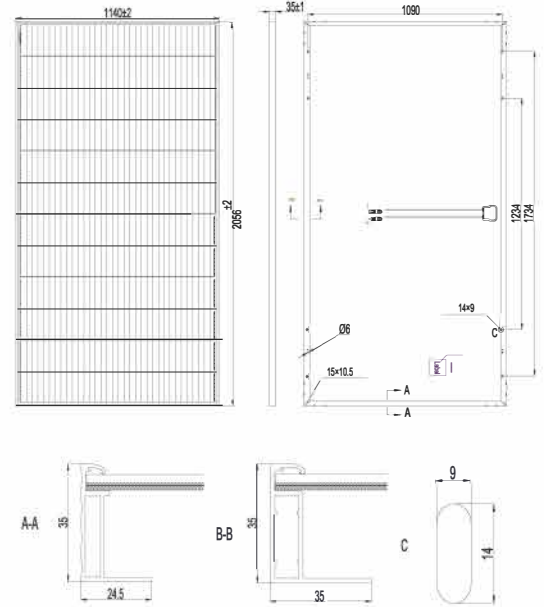
### Temperature Parameters

NMOT	42.30 °C (±2°C)
Open circuit voltage temperature coefficient	-0.27%/°C
Short circuit current temperature coefficient	+0.04%/°C
Maximum power temperature coefficient	-0.34%/°C

### Maximum Rated Parameters

Maximum system voltage (V)	DC1500/1000 (IEC)
Maximum fuse rated current (A)	20
Maximum front static load (Pa)	5400
Working temperature (°C)	-40~+ 85
Hail resistance	Maximum diameter 25mm, impact speed 23m/s

### Drawings



### I-V Curve

