

Shingled monofacial module

TH635~660PMB6 68SC



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.

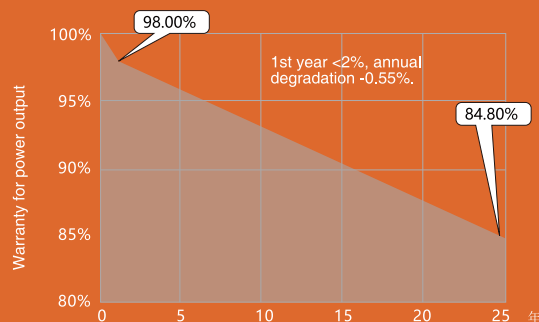
Linear Power Output Warranty

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
ISO 14001:2015 / environmental management system
ISO 45001:2018 / occupation health safety management system
ISO 50001:2011 / energy management system
IEC TS 62941—2016 / PV industry quality management system



Electrical Characteristics (STC)

Module type: TH***PMB6-68SC	660	655	650	645	640	635
Maximum power - P _m (W)	660	655	650	645	640	635
Open circuit voltage - V _{oc} (V)	46.4	46.3	46.2	46.1	46.0	45.9
Short circuit current I _{sc} (A)	18.23	18.13	18.02	17.93	17.83	17.73
Voltage at maximum power point - V _m (V)	38.51	38.43	38.38	38.26	38.18	38.1
Current at maximum power point - I _m (A)	17.14	17.04	16.94	16.862	16.76	16.67
Module efficiency - η (%)	21.5	21.3	21.2	1.0	20.9	20.7

Electrical Characteristics (NMOT)

Maximum power - P _m (W)	497	493	489	486	482	478
Open circuit voltage - V _{oc} (V)	44.2	44.1	44.1	43.9	43.9	43.8
Short circuit current I _{sc} (A)	14.71	14.63	14.54	14.47	14.39	14.31
Voltage at maximum power point - V _m (V)	36.7	36.6	36.6	36.5	36.4	36.3
Current at maximum power point - I _m (A)	13.54	13.46	13.38	13.31	13.24	13.16

* STC: Irradiation 1000W/m²; AM1.5; environmental temperature 25°C; tested according to EN 60904-3;
 * NMOT: irradiation 800W/m²; wind speed 1m/s; environmental temperature 20°C;
 * P_m tolerance: 0~+5W ; power test uncertainty: $\pm 3\%$; Voc[V], I_{sc}[A], V_m[V] and I_m[A] test tolerance: $\pm 3\%$

Mechanical Parameters

Size	2355×1303×35mm (L×W×H)
Weight	34.0kg
Front glass	Coated toughened glass, 3.2mm
Cell	Monocrystalline PERC 210×210mm
Cell layout	408 (68*6)
Backplate	High weather resistant
Frame	Anodic alumina profile
Junction box	IP68, split-type, 3 diodes
Cable	4mm ² , +600mm/-1200mm (vertical), +250mm/-150mm (horizontal), customizable
Connector	MC4 compatible / original EVO2
Packaging mode	31pcs/pallet; 558pcs/40'HQ; 744pcs/truck

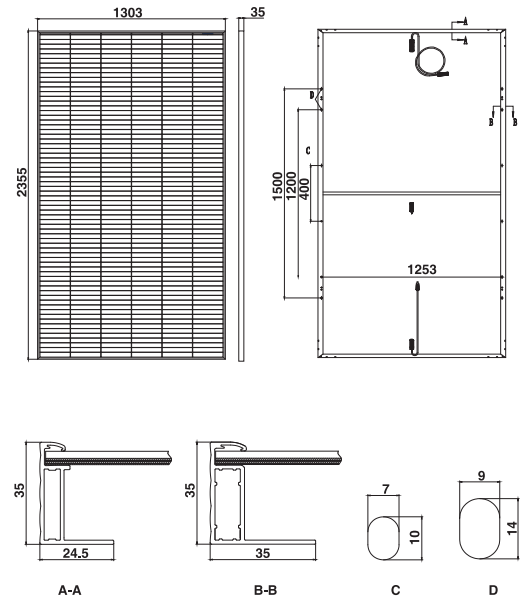
Temperature Parameters

NMOT	42.30 °C ($\pm 2^{\circ}\text{C}$)
Open circuit voltage temperature coefficient	-0.27%/°C
Short circuit current temperature coefficient	+0.04%/°C
Maximum power temperature coefficient	-0.34%/°C

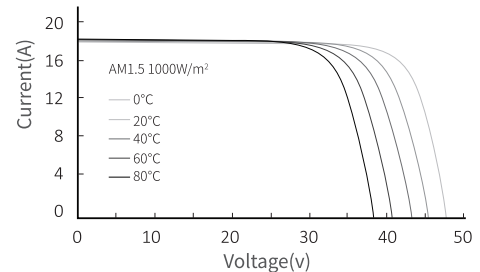
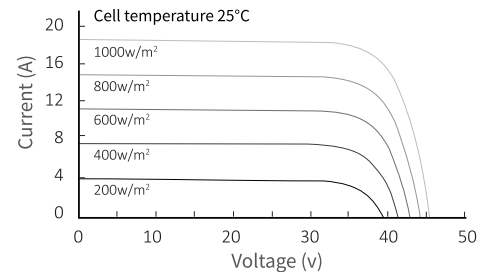
Maximum Rated Parameters

Maximum system voltage (V)	DC1500 (IEC)
Maximum fuse rated current (A)	30
Maximum front static load (Pa)	Front 5400 / Rear 2400
Working temperature (°C)	-40~+ 85
Hail resistance	Maximum diameter 25mm, impact speed 23m/s

Drawings



I-V Curve



Statement:

With technological progress and product updates, there may be deviations between the technical parameters of Tongwei's module products and the technical parameters contained in this specification, and Tongwei Solar has the right to adjust the technical parameters at any time without notifying the customer, the final interpretation of the technical specification is vested in Tongwei Solar.