BIFACIAL BIPV PERC MONOCRYSTALLINE 80-64-48PMKB12



- TT400-80PMKB12-250
- TT240-48PMKB12-175
- TT320-64PMKB12-200
- TT240-48PMKB12-150







High Conversion Efficiency igh panel efficiency to guarantee high power output



Self-Cleaning And Anti-Reflection Glass



Outstanding Low Irradiation Glass



Excellent Durability Wind load up to 2400 Pa, Snow load up to 5400 Pa



0~+5W Positive Power Tolerance



Easy Installation

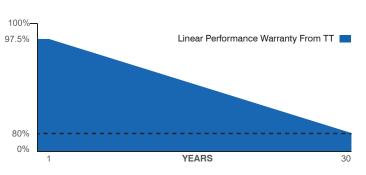


Twice EVA Laminated Double Glass



According to guideline DIN 18008. For vertical and overhead glazing (DIBt Z-70.3-293 Approval).

TommaTech's Building Integrated Solar Modules (BIPV) are designed with the latest generation of high efficiency cells, providing a smart and environmentally friendly energy solution that is also aesthetically pleasing. Designed in 4 main sizes, the solar modules are preferred in many areas such as restaurants, cafes, homes, offices, workplaces, hotels, pools, conservatories and terraces of houses. The system is equipped with aluminum infrastructure and provides both thermal insulation and tightness. The system, which can be designed as an off-grid, grid-tied or hybrid solar energy system, is also a real eye-catcher.



ommaTech Gmbl Allgemeine pauaufsichtliche Zulassung/ Allgemeine Bauartgenehmigung Nr. Z-70.3-293 eutsches Institut für Bautechnik

TT240Wp

TT240Wp

TT320Wp

TT400Wp











IEC 61215, IEC 61730-1, IEC 61730-2 ISO 9001:2015, ISO 14001:2015, ISO 45001:2018





30 Years Performance Warranty



30 Years Product Warranty





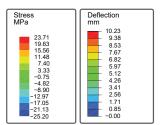
Model Type	48PMKB12-150	48PMKB12-175	64PMKB12-200	80PMKB12-250			
Peak Power (Pmax)	240 Wp	240 Wp	320 Wp	400 Wp			
Module Efficiency	16.33	14	16.33	16.33			
Maximum Power Voltage (Vmp)	27.70	27.70	36.93	46.16			
Maximum Power Current (Imp)	8.67	8.67	8.67	8.67			
Open Circuit Voltage (Voc)	32.50	32.50	43.33	54.16			
Short Circuit Current (Isc)	9.11	9.11	9.11	9.11			
Cell Dimensions(mm)	48(6x8)	48(6x8)	64(8x8)	80(10x8)			
Cells per Module	210x105	210x105	210x105	210x105			
Panel Dimensions (mm)	1500x980x7.6	1750x980x7.6	2000x980x7.6	2500x980x7.6			
Weight (kg)	29.13	33.66	38.44	48.10			
Transparent Area (%)	27	38	27	27			
Front / Back Glass Thickness (mm)	3.2 / 4.0						
Power Tolerance	0~+5W						
Maximum System Voltage	1500V DC						
Nominal Operating Cell Temp.	-40 ~ +85°C						
Protection Class	Class II						
Maximum Series Fuse Rating	20A						
Max. Wind/Snow Load (Pa)	2400 / 2400						
Junction Box	IP68						
Junction Box Cable Length(cm)	30						

TEMPERATURE CHARACTERISTICS

Temp. Coeff. of Isc	0.041%/°C
Temp. Coeff. of Voc	-0.280%/°C
Temp. Coeff. of Pmax	-0.360%/°C

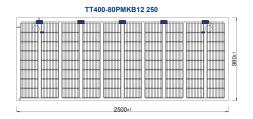
PACKING CONFIGURATION

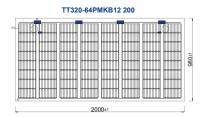
Module Model	48PMKB12	48PMKB12	64PMKB12	80PMKB12
Container	40' GP	40' GP	40' GP	40' GP
Pieces per Pallet	20	20	20	20
Pieces per Container	640	560	480	400
Pallet per Container	32	28	24	20
Weight of Pallet (kg)	470	530	615	730

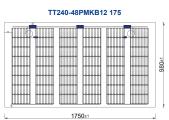


*Simulation Results Under 2400Pa Pressure

PHYSICAL CHARACTERISTICS









^{*} The specifications are obtained under the standard test conditions: 1000W/m2 solar irradiance, 1.5 Air Mass and cell temperature of 25°C. Measurement uncertainty for all panels is 6%. The actual transactions will be subject to the contracts. These parameters are for reference only and it is not a part of the contracts. The technical specifications in this document may vary. For more information, refer to the "Installation Manual".

* For roof, facades and installations on similar surfaces, solar panels should be mounted over a fire-resistant covering suitable for this application, with adequate ventilation between the back of the solar panels and

3.2+4.0mm Twice EVA

Laminated Double Glass

Ver.2408.2

^{*} For roof, facades and installations on similar surfaces, solar panels should be mounted over a fire-resistant covering suitable for this application, with adequate ventilation between the back of the solar panels and the mounting surface. Improper installations are hazardous and may spark a fire. Solar panels must not be mounted on structures and roofs which are made of not fire-resistant materials such as plastic layer, transparent plastic, PVC or similar materials without any fire-protection layer. Usage and installation not in accordance with the guidelines as outlined in the installation manual will terminate the warranty. Please refer to the installation manual and the warranty documents for further details.

^{*} TommaTech® GmbH reserves the right to change the specification of products without prior notice.