BIPV
PERC MONOCRYSTALLINE
80-64-48PMKB12

TOMMATECH GmbH
GERMAN-based company

INFO GROUP GLOBAL ENERGY

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

10 YEARS Product Warranty

High Conversion Efficiency
High panel efficiency to guarantee high power output

Self-Cleaning And Anti-Reflection Glass
Coating glass for self-cleaning reduces surface dust

Outstanding Low Irradiation Glass
Outstanding panel performance even in weak light conditions

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

TT240Wp TT240Wp TT320Wp TT400Wp

Our partner 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.

ISO PV CYCLE CE

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

Allianz

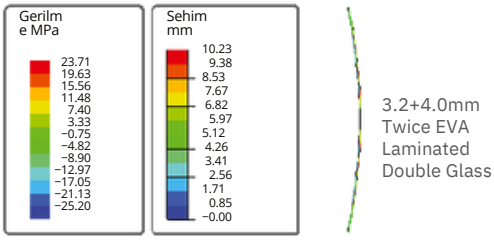
Model Type	48PMKB12-150	48PMKB12-175	64PMKB12-200	80PMKB12-250
Peak Power (Pmax)	240 Wp	240 Wp	320 Wp	400 Wp
Module Efficiency	16.33	14	16.33	16.33
Maximum Power Voltage (Vmp)	27.70	27.70	36.93	46.16
Maximum Power Current (Imp)	8.67	8.67	8.67	8.67
Open Circuit Voltage (Voc)	32.50	32.50	43.33	54.16
Short Circuit Current (Isc)	9.11	9.11	9.11	9.11
Cells per Module	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			
Fire Safety Class	C			
Maximum Series Fuse Rating	20A			
Max. Wind/Snow Load (Pa)	2400 / 2400			
Junction Box	IP68			
Connector Length (cm)	120			

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	20' GP / 40' GP	20' GP / 40' GP	20' GP / 40' GP	20' GP / 40' GP
Pieces per Pallet	16	15	16	15
Pieces per Container	160 / 368	135 / 300	112 / 240	90 / 180
Pallet per Container	10 / 23	9 / 20	7 / 15	6 / 12
Weight of Pallet (kg)	470	510	615	715

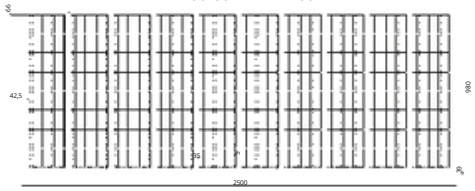


3.2+4.0mm
Twice EVA
Laminated
Double Glass

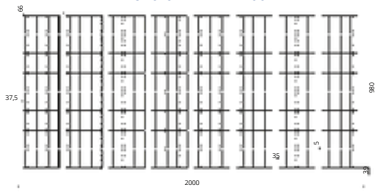
*Simulation Results Under 2400Pa Pressure

PHYSICAL CHARACTERISTICS

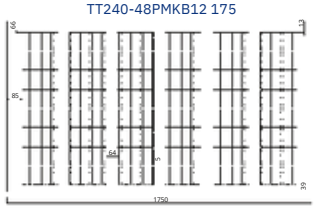
TT400-80PMKB12 250



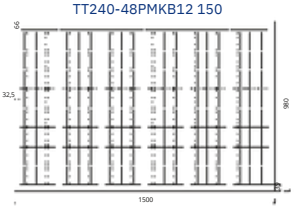
TT320-64PMKB12 200



TT240-48PMKB12 175



TT240-48PMKB12 150



***** 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 specifications are subject to change without prior notice.

***** 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.