

BIFACIAL PERC MONOCRYSTALLINE 132PMB12



- ◆ TT675-132PMB12 675 Wp ◆ TT660-132PMB12 660Wp
- ◆ TT670-132PMB12 670 Wp ◆ TT655-132PMB12 655 Wp
- ◆ TT665-132PMB12 665Wp ◆ TT650-132PMB12 650 Wp



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



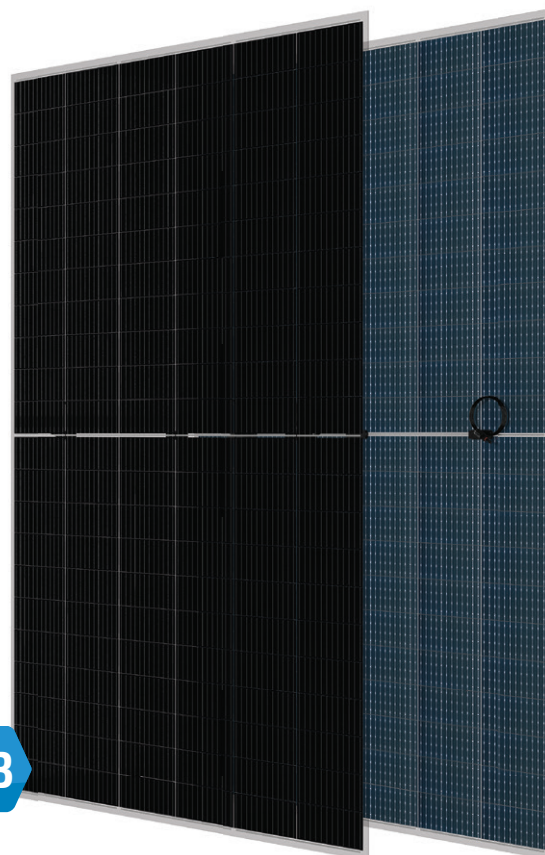
0~+5W Positive Power Tolerance



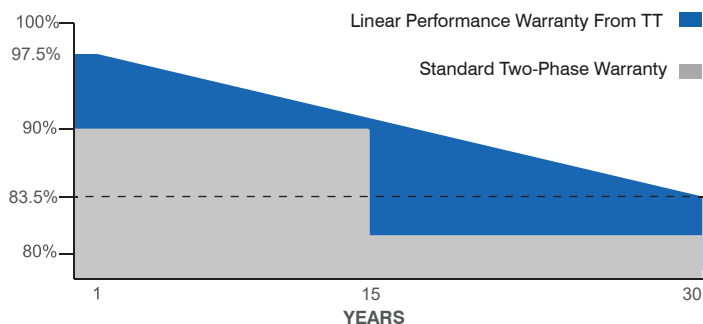
Easy Installation



Twice EVA Laminated Double Glass



12BB



Half-Cut

DOUBLE GLASS



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



SOMPO
INSURANCE



30 Years Performance Warranty



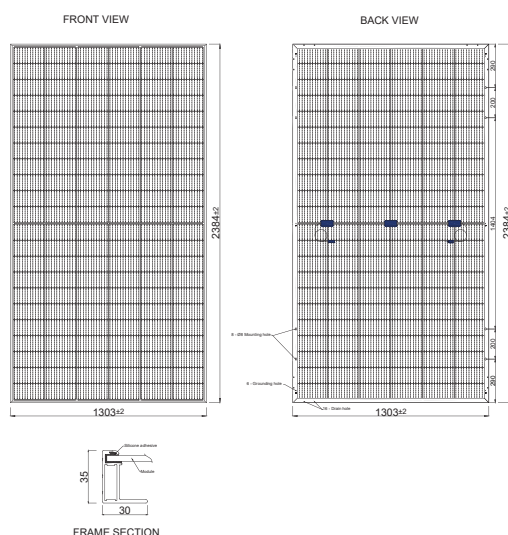
15 Years Product Warranty

| Model Type | TT650 132PMB12 | TT655 132PMB12 | TT660 132PMB12 | TT665 132PMB12 | TT670 132PMB12 | TT675 132PMB12 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Peak Power (P _{max}) | 650 Wp | 655Wp | 660Wp | 665Wp | 670Wp | 675Wp |
| Module Efficiency | 20.92 | 21.09 | 21.25 | 21.41 | 21.57 | 21.73 |
| Maximum Power Voltage (V _{mp}) | 37.50 | 37.70 | 37.90 | 38.10 | 38.30 | 38.50 |
| Maximum Power Current (I _{mp}) | 17.34 | 17.38 | 17.42 | 17.46 | 17.50 | 17.54 |
| Open Circuit Voltage (V _{oc}) | 45.20 | 45.40 | 45.60 | 45.80 | 46.00 | 46.20 |
| Short Circuit Current (I _{sc}) | 18.35 | 18.39 | 18.44 | 18.48 | 18.51 | 18.56 |
| Power Tolerance | 0~+5W | | | | | |
| Maximum System Voltage | 1500V DC | | | | | |
| Operating Temperature | -40 ~ +85°C | | | | | |
| Fire Safety Class | Class II | | | | | |
| Maximum Series Fuse Rating | 30A | | | | | |

MECHANICAL SPECIFICATIONS

| | |
|-------------------------------|--------------|
| Cell Dimensions(mm) | 210x105 |
| Cells per Module(pcs) | 132 (6x22) |
| Weight(kg) | 39.5 |
| Panel Dimensions(mm) | 2384x1303x35 |
| Max. Wind/Snow Load(Pa) | 2400/5400 |
| Junction Box | IP68 |
| Junction Box Cable Length(mm) | 350-1600 |
| Cam Kalınlığı(mm) | 2.0 / 2.0 |

PHYSICAL CHARACTERISTICS



REAR SIDE POWER GAIN

(660W Front Power Referenced)

| Rear Power Gain | 5% | 10% | 15% | 20% | 25% |
|--|-------|-------|-------|-------|-------|
| Maximum Power (P _{max}) | 693 | 726 | 759 | 792 | 825 |
| Short Circuit Current (I _{sc}) | 19.32 | 20.24 | 21.05 | 21.96 | 22.88 |
| Open Circuit Voltage (V _{oc}) | 45.60 | 45.60 | 45.80 | 45.80 | 45.80 |
| Maximum Power Current (I _{mp}) | 18.19 | 19.06 | 19.82 | 20.68 | 21.54 |
| Maximum Power Voltage (V _{mp}) | 38.10 | 38.10 | 38.30 | 38.30 | 38.30 |

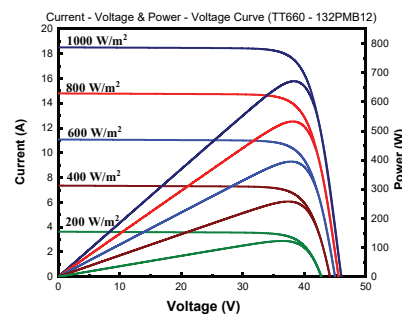
TEMPERATURE CHARACTERISTICS

| | |
|-------------------------------------|------------|
| Temp. Coeff. of (I _{sc}) | 0.040%/°C |
| Temp. Coeff. of (V _{oc}) | -0.260%/°C |
| Temp. Coeff. of (P _{max}) | -0.340%/°C |

PACKING CONFIGURATION

| | |
|----------------------|--------|
| Container | 40' GP |
| Pieces per Pallet | 30 |
| Pieces per Container | 480 |
| Pallet Per Container | 16 |

ELECTRICAL 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 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.

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