

BIFACIAL TOPCON MONOCRYSTALLINE 144TNB10

- ◆ TT595-144TNB10 595 Wp
- ◆ TT580-144TNB10 580 Wp
- ◆ TT590-144TNB10 590 Wp
- ◆ TT575-144TNB10 575 Wp
- ◆ TT585-144TNB10 585 Wp
- ◆ TT570-144TNB10 570 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

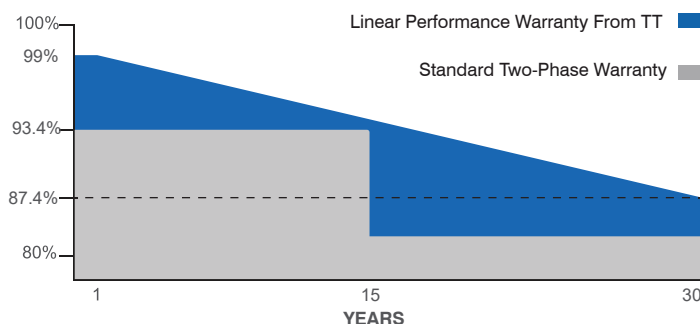
Wind load up to 2400 Pa, Snow load up to 5400 Pa



0~+5W Positive Power Tolerance



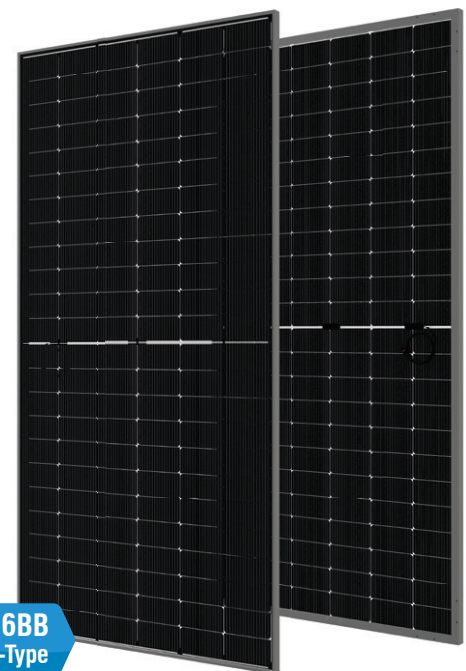
Easy Installation



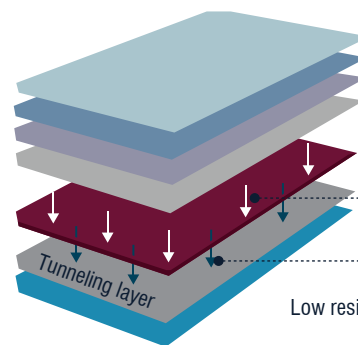
30 Years Performance Warranty



15 Years Product Warranty



16BB
n-Type



Low resistance loss and high Voc

Half-Cut



SOMPO
INSURANCE

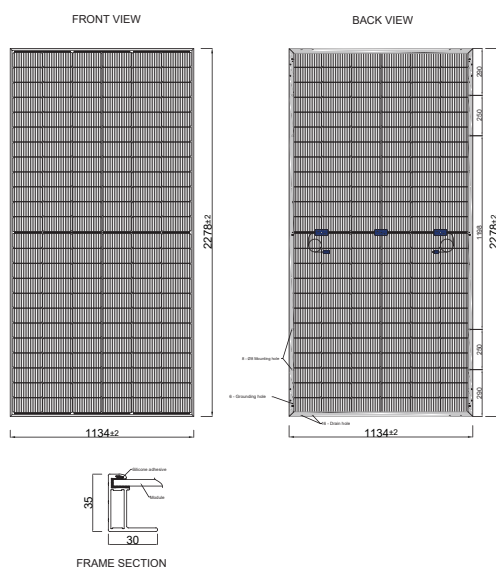
IEC 61215, IEC 61730-1, IEC 61730-2
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

| Model Type | TT570 144TNB10 | TT575 144TNB10 | TT580 144TNB10 | TT585 144TNB10 | TT590 144TNB10 | TT595 144TNB10 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Peak Power (P _{max}) | 570 Wp | 575 Wp | 580 Wp | 585 Wp | 590 Wp | 595 Wp |
| Module Efficiency | 22.07 | 22.26 | 22.45 | 22.65 | 22.84 | 23.03 |
| Maximum Power Voltage (V _{mp}) | 42.55 | 42.75 | 42.95 | 43.15 | 43.35 | 43.55 |
| Maximum Power Current (I _{mp}) | 13.40 | 13.46 | 13.51 | 13.56 | 13.62 | 13.67 |
| Open Circuit Voltage (V _{oc}) | 50.58 | 50.78 | 50.98 | 51.18 | 51.38 | 51.58 |
| Short Circuit Current (I _{sc}) | 14.17 | 14.23 | 14.31 | 14.38 | 14.45 | 14.53 |
| Power Tolerance | 0~+5W | | | | | |
| Maximum System Voltage | 1500V DC | | | | | |
| Operating Temperature | -40 ~ +85°C | | | | | |
| Protection Class | Class II | | | | | |
| Maximum Series Fuse Rating | 25A | | | | | |

MECHANICAL SPECIFICATIONS

| | |
|-------------------------------|--------------|
| Cell Dimensions(mm) | 182 x 91 |
| Cells per Module(pcs) | 144 (24x6) |
| Weight(kg) | 29.0 |
| Panel Dimensions(mm) | 2278x1134x35 |
| Max. Wind/Snow Load(Pa) | 2400/5400 |
| Junction Box | IP68 |
| Junction Box Cable Length(mm) | 350-1600 |

PHYSICAL CHARACTERISTICS



REARSIDE POWER GAIN

(570W Front Power Referenced)

| Rear Power Gain | 5% | 10% | 15% | 20% | 25% |
|--|--------|--------|--------|--------|--------|
| Maximum Power (P _{max}) | 598.50 | 627.00 | 655.50 | 684.00 | 712.50 |
| Short Circuit Current (I _{sc}) | 14.86 | 15.55 | 16.24 | 16.92 | 17.61 |
| Open Circuit Voltage (V _{oc}) | 50.68 | 50.77 | 50.86 | 50.94 | 51.02 |
| Maximum Power Current (I _{mp}) | 14.06 | 14.72 | 15.37 | 16.03 | 16.68 |
| Maximum Power Voltage (V _{mp}) | 42.57 | 42.60 | 42.65 | 42.68 | 42.71 |

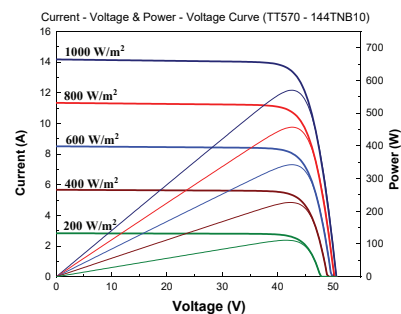
TEMPERATURE CHARACTERISTICS

| | |
|-------------------------------------|------------|
| Temp. Coeff. of (I _{sc}) | 0.040%/°C |
| Temp. Coeff. of (V _{oc}) | -0.260%/°C |
| Temp. Coeff. of (P _{max}) | -0.30%/°C |

PACKING CONFIGURATION

| | |
|----------------------|--------|
| Container | 40' GP |
| Pieces per Pallet | 30 |
| Pieces per Container | 600 |
| Pallet Per Container | 20 |

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 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 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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