

TOPCON MONOCRYSTALLINE 144TN10



- ◆ TT620-144TN10 620 Wp
- ◆ TT515-144TN10 615 Wp
- ◆ TT610-144TN10 610 Wp
- ◆ TT605-144TN10 605 Wp
- ◆ TT600-144TN10 600 Wp
- ◆ TT595-144TN10 595 Wp
- ◆ TT590-144TN10 590 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

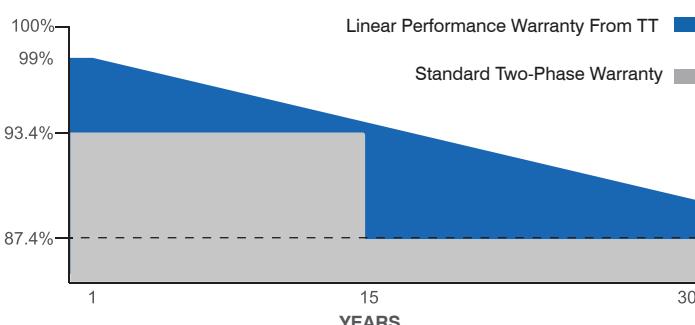
Wind load up to 2400 Pa, Snow load up to 5400 Pa



0~+5W Positive Power Tolerance



Easy Installation

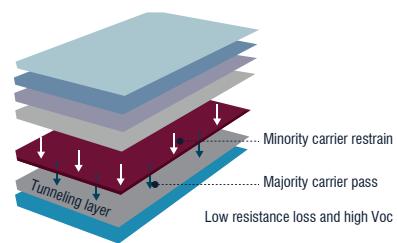


30 Years Performance Warranty

15 Years Product Warranty



16BB
n-Type



Half Cut



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

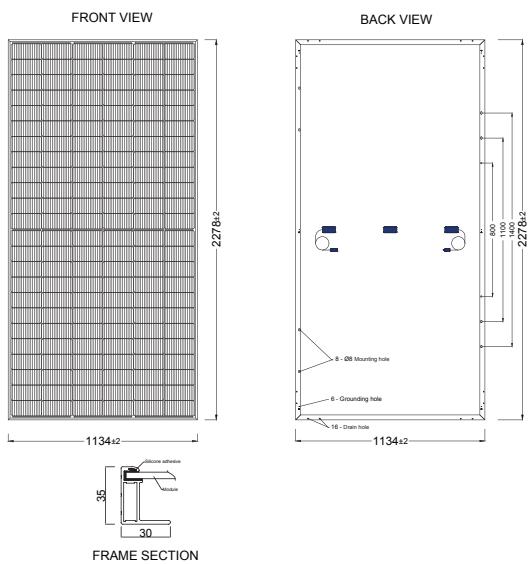


Model Type	TT590 144TN10	TT595 144TN10	TT600 144TN10	TT605 144TN10	TT610 144TN10	TT615 144TN10	TT620 144TN10
Peak Power (Pmax)	590 Wp	595 Wp	600 Wp	605 Wp	610 Wp	615 Wp	620 Wp
Module Efficiency	22.84	23.03	23.23	23.42	23.61	23.81	24.00
Maximum Power Voltage (Vmp)	43.35	43.55	43.75	43.95	44.15	44.35	44.55
Maximum Power Current (Imp)	13.62	13.67	13.72	13.77	13.82	13.87	13.92
Open Circuit Voltage (Voc)	51.98	52.18	52.38	52.58	52.78	52.98	53.18
Short Circuit Current (Isc)	14.30	14.36	14.42	14.48	14.54	14.60	14.66
Power Tolerance	0~+5W						
Maximum System Voltage	1500V DC						
Operating Temperature	-40 ~ +85°C						
Protection Class	Class II						
Maximum Series Fuse Rating	30A						

MECHANICAL SPECIFICATIONS

Cell Dimensions(mm)	182,2 x 91,8
Cells per Module(pcs)	144 (6x24)
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



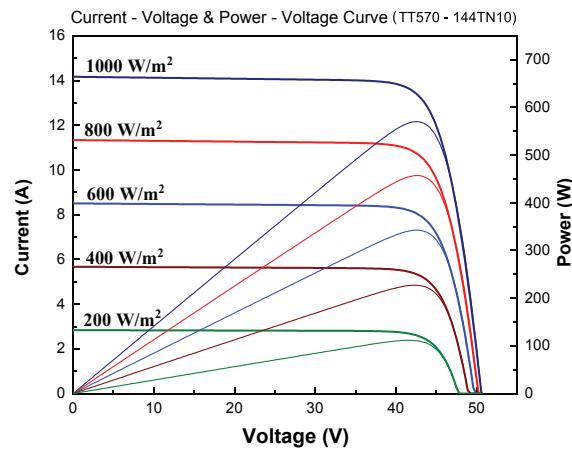
TEMPERATURE CHARACTERISTICS

Temp. Coeff. of (Isc)	0.040%/°C
Temp. Coeff. of (Voc)	-0.260%/°C
Temp. Coeff. of (Pmax)	-0.30%/°C

PACKING CONFIGURATION

Container	40' GP
Pieces per Pallet	31
Pieces per Container	620
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 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.