TOPCON MONOCRYSTALLINE 120TN10

TOMMATECH GmbH

GERMAN-based company

- TT480-120TN10 480 Wp
- TT475-120TN10 475 Wp
- TT470-120TN10 470 Wp
- TT465-120TN10 465 Wp
- TT460-120TN10 460 Wp

15 – YEARS – Product Warranty

30 – YEARS – Performance 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

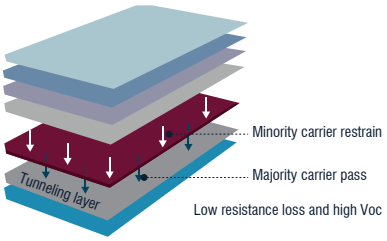
Outstanding Low Irradiation Glass
Outstanding panel performance even in weak light conditions

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

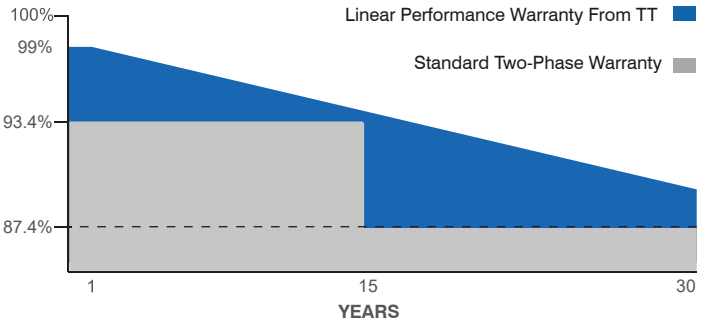
0~+5W Positive Power Tolerance

Easy Installation





HalfCut



30 Years Performance Warranty

15 Years Product Warranty

IEC 61215, IEC 61730-1, IEC 61730-2
IEC 62804 PID (POTENTIAL INDUCED DEGRADATION)
IEC 61701 SALT MIST CORROSION
IEC 62716 AMMONIA CORROSION
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

SOMPO

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Half-Cut

TOMMATECH GmbH
GERMAN-based company

Model Type	TT460 120TN10	TT465 120TN10	TT470 120TN10	TT475 120TN10	TT480 120TN10
Peak Power (Pmax)	460 Wp	465 Wp	470 Wp	475 Wp	480 Wp
Module Efficiency	21.25	21.45	21.71	21.94	22.17
Maximum Power Voltage (Vmp)	35.26	35.46	35.66	35.86	36.06
Maximum Power Current (Imp)	13.05	13.12	13.19	13.25	13.32
Open Circuit Voltage (Voc)	41.90	42.10	42.30	42.50	42.70
Short Circuit Current (Isc)	13.86	13.93	14.00	14.08	14.14
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)	182,2 x 91,8
Cells per Module(pcs)	120 (6x20)
Weight(kg)	24.6
Panel Dimensions(mm)	1909x1134x35
Max. Wind/Snow Load(Pa)	2400/5400
Junction Box	IP68
Junction Box Cable Length(mm)	300-1600

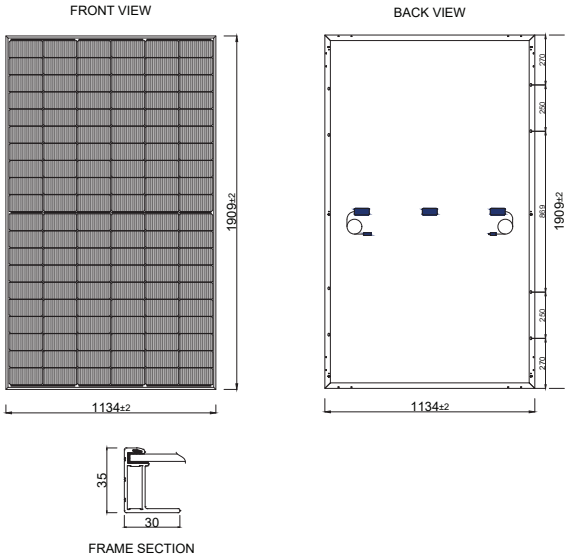
TEMPERATURE CHARACTERISTICS

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

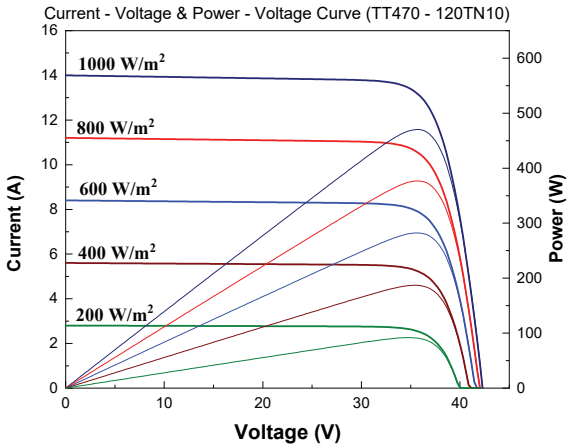
PACKING CONFIGURATION

Container	40' GP
Pieces per Pallet	31
Pieces per Container	744
Pallet Per Container	24

PHYSICAL CHARACTERISTICS



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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