

# SOLAR ROOF TILE

WATER PROOF, SUITABLE FOR ROOFTOP  
SOLAR PANEL FRAME SYSTEM

PERC MONOCRYSTALLINE • 108PMCK12

◆ TT550-108PMCK12 550 Wp

◆ TT535-108PMCK12 535 Wp

◆ TT545-108PMCK12 545 Wp

◆ TT530-108PMCK12 530 Wp

◆ TT540-108PMCK12 540 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

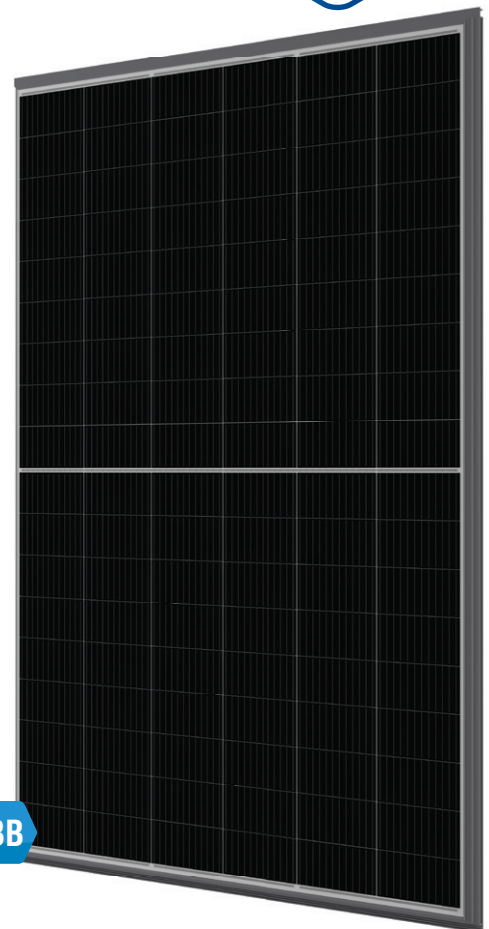


## 0~+5W Positive Power Tolerance



## Easy Installation

12BB



TommaTech PERC Monocrystalline Roof Tile Solar Panels are designed to be used in on-grid and off-grid solar energy solutions. The new generation solar modules provide the highest energy generation per unit area with improved cell shape and dimensions. The efficiency of the cells and therefore of the modules is increased by optimizing the electron capture capability of the cells with PERC technology. Known as Roof Tile, this model allows the modules to be interlocked to each other with the design made in the panel frame system, making it possible to create useful areas such as garages or warehouses with the option of mounting on carcass buildings, while at the same time providing insulation with its impermeable structure.

# Half-Cut



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



SOMPO SiGORTA

Model Type	TT530 108PMCK12	TT535 108PMCK12	TT540 108PMCK12	TT545 108PMCK12	TT550 108PMCK12
Peak Power (P <sub>max</sub> )	530 Wp	535 Wp	540 Wp	545 Wp	550 Wp
Module Efficiency	20.70	20.90	21.09	21.29	21.48
Maximum Power Voltage (V <sub>mp</sub> )	30.7	30.9	31.1	31.3	31.5
Maximum Power Current (I <sub>mp</sub> )	17.27	17.31	17.36	17.42	17.46
Open Circuit Voltage (V <sub>oc</sub> )	37.0	37.2	37.5	37.7	37.9
Short Circuit Current (I <sub>sc</sub> )	18.28	18.33	18.38	18.45	18.49
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)	210x105
Cells per Module(pcs)	108 (6x18)
Weight(kg)	30.6
Panel Dimensions(mm)	2005x1334.1x25.6
Max. Wind/Snow Load(Pa)	2400/5400
Junction Box	IP68
Junction Box Cable Length(mm)	350-1600

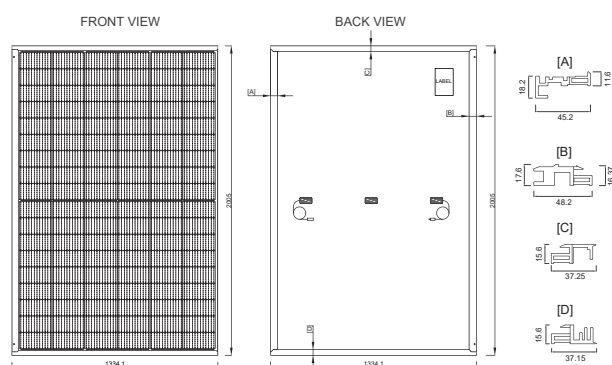
## TEMPERATURE CHARACTERISTICS

Temp. Coeff. of (I <sub>sc</sub> )	0.05%/°C
Temp. Coeff. of (V <sub>oc</sub> )	-0.27%/°C
Temp. Coeff. of (P <sub>max</sub> )	-0.35%/°C

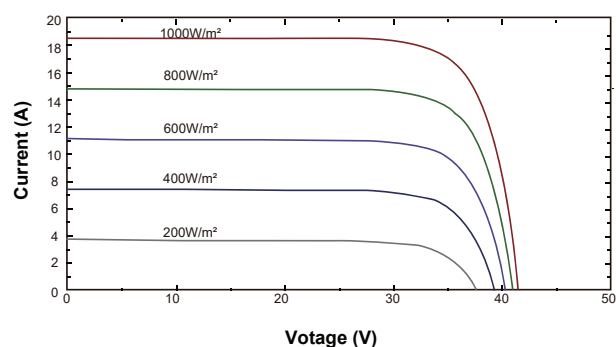
## PACKING CONFIGURATION

Container	40' GP
Pieces per Pallet	21
Pieces per Container	210
Pallets per Container	10

## PHYSICAL CHARACTERISTICS



Current-Voltage Curve (TT540-108PMCK12)



\* 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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