PRODEFFI ENERGIE

# SOLAR TILES

## WATERPROOF, SUITABLE FOR ROOF SOLAR PANEL FRAME SYSTEM

## MONOCRYSTALLINE PERC 108PMCK12

- TT550-108PMCK12 550 Wp
- TT545-108PMCK12 545 Wp
- TT540-108PMCK12 540 Wp
- TT535-108PMCK12 535 Wp
- TT530-108PMCK12 530 Wp

10 YEARS Product Warranty

### High conversion efficiency
High panel efficiency to ensure high power output

### Self-cleaning and anti-reflective glass
Glass coating for self-cleaning reduces surface dust

### Exceptional glass with low irradiation
Outstanding panel performance, even in low-light conditions

### Excellent durability
Wind load up to 2400 Pa, Snow load up to 5400 Pa

### 0~+5W positive power tolerance

### Easy installation

PRODEFFI ENERGIE PERC monocrystalline solar panels are designed for use in on-grid and off-grid solar energy solutions. Next-generation solar modules provide the highest energy output per unit area with improved cell shape and dimensions. The efficiency of the cells and therefore the modules is increased by optimizing the electron capture capacity of the cells with PERC technology. Known as roof tiles, this model allows the modules to be locked to each other with the design carried out in the panel frame system, which makes it possible to create useful areas such as garages or warehouses with the possibility of mounting on carcass buildings, while insulating its impermeable structure.

Half Cut

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

Allianz

# SOLAR TILES

## MONOCRYSTALLINE PERC • 108PMCK12 (530-550

| Model Type | TT530 108PMCK12 | TT535 108PMCK12 | TT540 108PMCK12 | TT545 108PMCK12 | TT550 108PMCK12 |
|---|---|---|---|---|---|
| Peak power (Pmax) | 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 (Vmp) | 30.7 | 30.9 | 31.1 | 31.3 | 31.5 |
| Maximum power current (imp) | 17.27 | 17.31 | 17.36 | 17.42 | 17.46 |
| Open circuit voltage (VOC) | 37.0 | 37.2 | 37.5 | 37.7 | 37.9 |
| Short circuit current (Isc) | 18.28 | 18.33 | 18.38 | 18.45 | 18.49 |
| Power tolerance | 0~+5W | | | | |
| Maximum system voltage | 1500V DC | | | | |
| Operating temperature | -40~+85°C | | | | |
| Fire Safety Class | C | | | | |
| Maximum power of serial fuses | 30A | | | | |

## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Cell dimensions (mm) | 210x105 |
| Cells per module (pcs) | 108 (6x18) |
| Weight (kg) | 30.6 |
| Panel dimensions (mm) | 2005x1334.1x25.6 |
| Wind/Snow Load | 2400/5400 |
| junction box | IP68 |
| (Pa) Junction box cable length | |
| (mm) | 350-1600 |

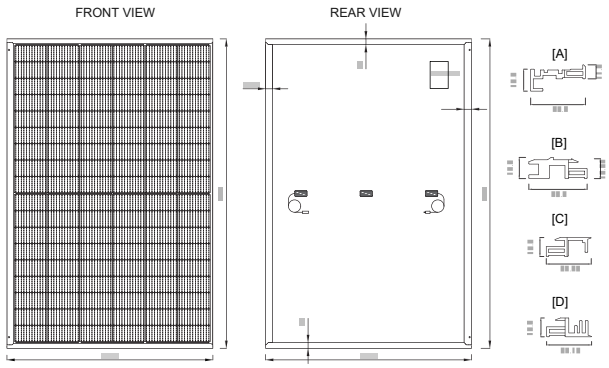
## TEMPERATURE CHARACTERISTICS

| | |
|---|---|
| Temp. Coeff. of (ISC) | 0.05%/°C |
| Temp. Coeff. from (Voc) | -0.27%/°C |
| Temp. Coeff. from (Pmax) | -0.35%/°C |

## PACKAGING CONFIGURATION

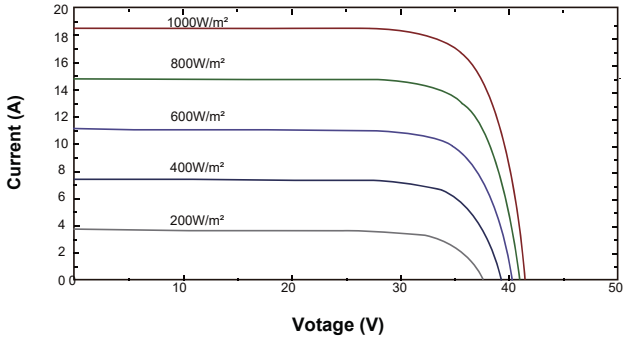
| Container | 40' GP |
|---|---|
| Parts per pallet | 21 |
| Parts per container | 210 |
| Pallets per container | 10 |

## PHYSICAL CHARACTERISTICS




## ELECTRICAL CHARACTERISTICS

Current-to-voltage curve (TT540-108PMCK12)




* Specifications are obtained under standard test conditions: solar irradiance 1000W/m2, 1.5 air mass and cell temperature of 25°C. The measurement uncertainty for all panels is 6%. Actual transactions will be subject to contracts. These parameters are provided for information purposes only and do not form part of the contracts. The technical specifications contained in this document may vary. For more information, refer to the "Installation Manual".
* For roofs, facades and installations on similar surfaces, solar panels must be mounted on a fire-resistant coating suitable for this application, with adequate ventilation between the rear of the solar panels and the mounting surface. Improper installations are dangerous and can start a fire. Solar panels should not be mounted on structures and roofs made of non-fire-resistant materials such as plastic layers, clear plastic, PVC or similar materials without a fire protection layer. Use and installation in accordance with the instructions described in the installation manual will terminate the warranty. Please refer to the installation manual and warranty documents for details.
* PRODEFFI ENERGIE reserves the right to modify product specifications without notice.