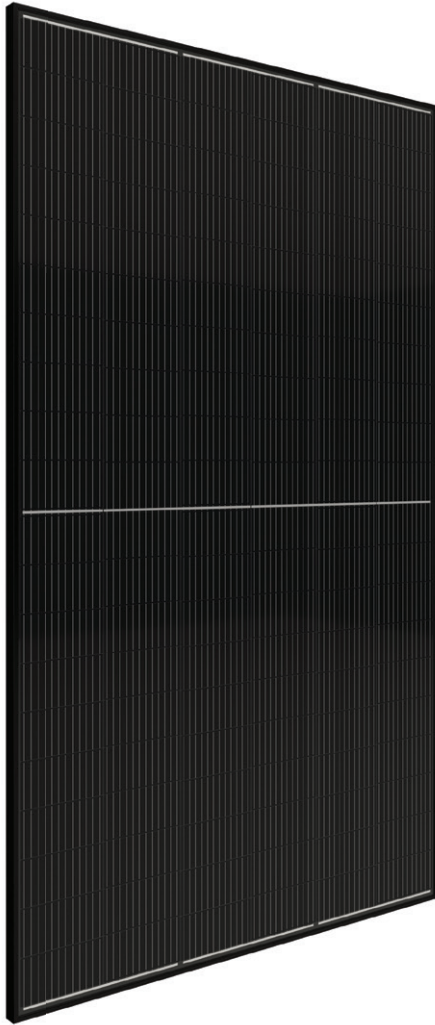


# PERC MONOCRYSTALLINE 120PM12

120<sub>cell</sub>



## Half Cut Multi-BB DARK SERIES



### 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

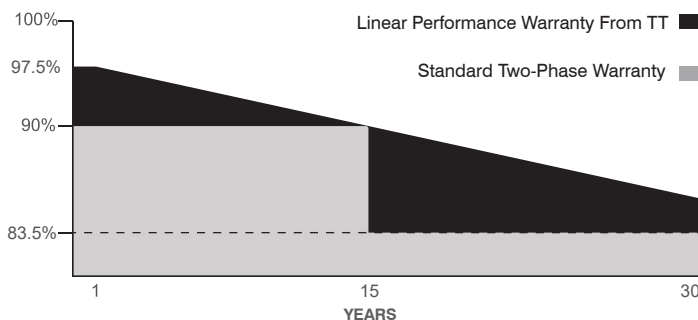
Outstanding panel performance even in weak light conditions.



### Easy Installation



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



30 Years Performance Warranty



15 Years Product Warranty

# DARK SERIES

## 120PM12

**Peak Power (Pmax)**  
**Module Efficiency**  
**Maximum Power Voltage (Vmp)**  
**Maximum Power Current (Imp)**  
**Open Circuit Voltage (Voc)**  
**Short Circuit Current (Isc)**  
**Power Tolerance**  
**Maximum System Voltage**  
**Operating Temperature**  
**Protection Class**  
**Maximum Series Fuse Rating**

### MECHANICAL SPECIFICATION

**Cell Dimensions (mm)**  
**Cells per Module (pcs)**  
**Weight (kg)**  
**Panel Dimensions (mm)**  
**Max. Wind/Snow Load (Pa)**  
**Junction Box**  
**Junction Box Cable Length (mm)**

TT590 120PM12	TT595 120PM12	TT600 120PM12	TT605 120PM12	TT610 120PM12
590Wp	595Wp	600Wp	605Wp	610 Wp
20.85	21.02	21.20	21.38	21.55
34.10	34.20	34.30	34.50	34.70
17.30	17.40	17.50	17.54	17.58
41.10	41.30	41.50	41.70	41.90
18.33	18.43	18.53	18.58	18.62
0~+5W				
1500V DC				
-40 ~ +85°C				
Class II				
25A				
210x105				
120 (6x20)				
31.0				
2172x1303x35				
2400/5400				
IP68				
350-1600				

### TEMPERATURE CHARACTERISTICS

### PACKING CONFIGURATION

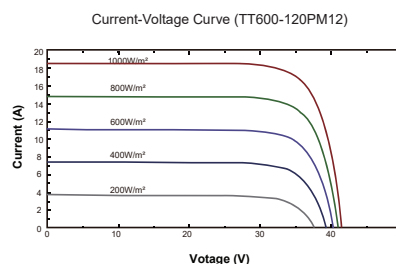
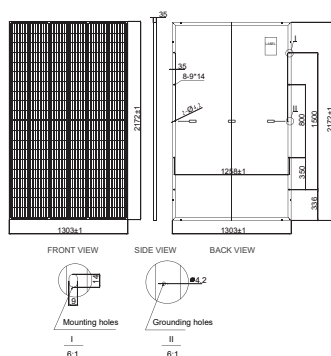
Container 40' GP

Temp. Coeff. of (Isc)	0.040%/°C
Temp. Coeff. of (Voc)	-0.260%/°C
Temp. Coeff. of (Pmax)	-0.340%/°C

Pieces per Pallet	31
Pieces per Container	527
Pallets per Container	17

### 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.

\* Please note that the color of PERC monocrystalline cells might vary slightly due to their natural structure. Consequently, there might be a color difference between the cells and between the cells and the backsheet.

\* TommaTech® GmbH reserves the right to change the specification of products without prior notice.

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