PERC MONOCRYSTALLINE 132PM12













High Conversion Efficieny 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 62204 PID (POTENTIAL INDUCED DEGRADATION) IEC 62204 PID (POTENTIAL INDUCED DEGRADATION) IEC 62716 AMMONIA CORROSION IEC 62716 AMMONIA CORROSION ISO 9001:2015, ISO 14001:2015, ISO 45001:2018







15

YEARS

30 Years Performance Warranty

Linear Performance Warranty From TT

Standard Two-Phase Warranty

15 Years Product Warranty

30

100%

97.5%

90%

83.5%

80%

 $\langle \mathbf{V} \rangle$

DARK SERIES



132PM12

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

TT650 132PM12	TT655 132PM12	TT660 132PM12	TT665 132PM12	TT670 132PM12	TT675 132PM12
650 Wp	655Wp	660Wp	665Wp	670Wp	675Wp
20.92	21.09	21.25	21.41	21.57	21.73
37.50	37.70	37.90	38.10	38.30	38.50
17.34	17.38	17.42	17.46	17.50	17.54
45.20	45.40	45.60	45.80	46.00	46.20
18.35	18.39	18.44	18.48	18.51	18.56
		0~+	-5W		
		1500	V DC		
		-40 ~	+85°C		
		Clas	ss II		
		30	A		

210x105

132 (6x22)

34.5

2384x1303x35

2400/5400

IP68

350-1600

MECHANICAL SPECIFICATION

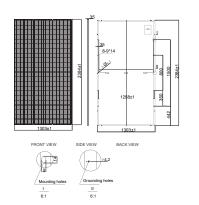
Cell Dimensions (mm) Cells per Module (pcs) Weight (kg) Panel Dimensions (mm) Max. Wind/Snow Load (Pa) Junction Box Sunction Box Cable Length (mm)

PACKING CONFIGURATION Container 40' GP

Temp. Coeff. of (Isc)	0.040%/°C	Pieces per Pallet	31
Temp. Coeff. of (Voc)	-0.260%/°C	Pieces per Container	527
Temp. Coeff. of (Pmax)	-0.340%/°C	Pallets per Container	17

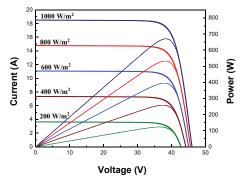
PHYSICAL CHARACTERISTICS

TEMPERATURE CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Current - Voltage & Power - Voltage Curve (TT670-132PM12)



* 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

www.tommatech.de

Ver.2308.23