

**BIFACIAL
PERC MONOCRYSTALLINE
132PMB12**

- ◆ TT675-132PMB12 675 Wp
- ◆ TT670-132PMB12 670 Wp
- ◆ TT665-132PMB12 665Wp
- ◆ TT660-132PMB12 660Wp
- ◆ TT655-132PMB12 655 Wp
- ◆ TT650-132PMB12 650 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



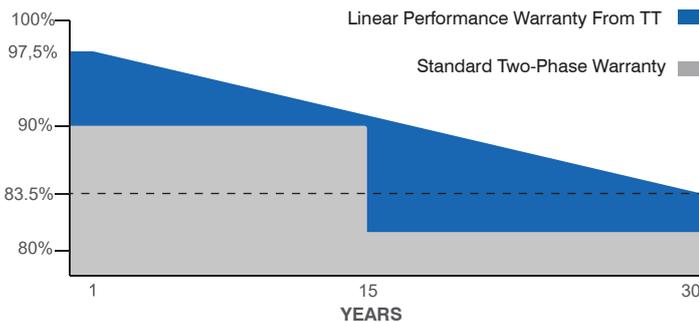
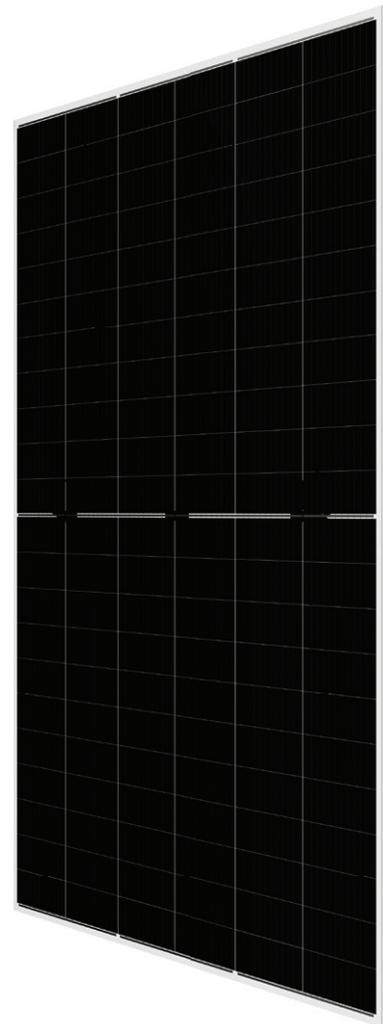
0~ +5Wp Positive Power Tolerance



Easy Installation



Twice EVA Laminated Double Glass



Half-Cut

DOUBLE GLASS



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



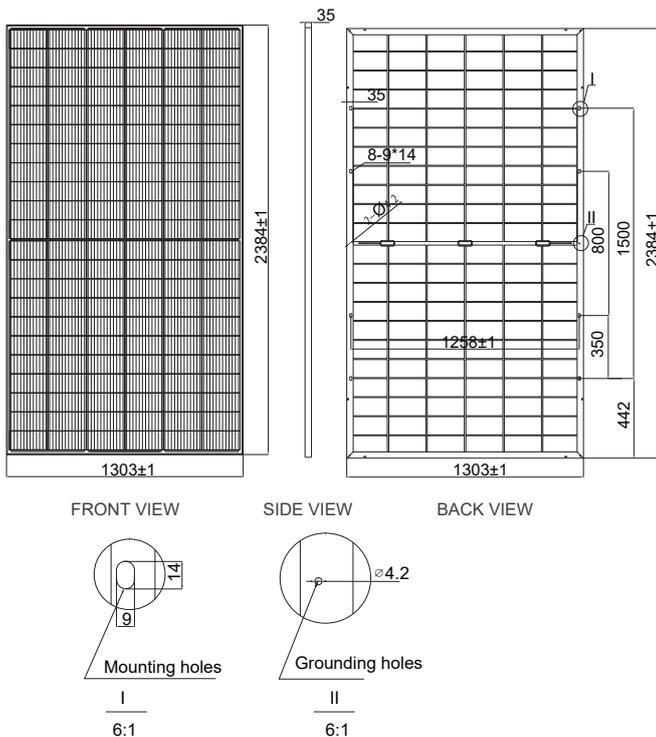
- ✓ 30 Years Performance Warranty
- ✓ 15 Years Product Warranty

Model Type	TT650 132PMB12	TT655 132PMB12	TT660 132PMB12	TT665 132PMB12	TT670 132PMB12	TT675 132PMB12
Peak Power (Pmax)	650 Wp	655Wp	660Wp	665Wp	670Wp	675Wp
Module Efficiency	20.92	21.09	21.25	21.41	21.57	21.73
Maximum Power Voltage (Vmp)	37.50	37.70	37.90	38.10	38.30	38.50
Maximum Power Current (Imp)	17.34	17.38	17.42	17.46	17.50	17.54
Open Circuit Voltage (Voc)	45.20	45.40	45.60	45.80	46.00	46.20
Short Circuit Current (Isc)	18.35	18.39	18.44	18.48	18.51	18.56
Power Tolerance	0~+5W					
Maximum System Voltage	1500V DC					
Operating Temperature	-40 ~ +85°C					
Fire Safety Class	C					
Maximum Series Fuse Rating	30A					

MECHANICAL SPECIFICATIONS

Cell Dimensions(mm)	210x105
Cells per Module(pcs)	132 (6x22)
Weight(kg)	39.5
Panel Dimensions(mm)	2384x1303x35
Max. Wind/Snow Load(Pa)	2400/5400
Junction Box	IP68
Junction Box Cable Length(mm)	350-1600
Cam Kalınlığı(mm)	2.0 / 2.0

PHYSICAL CHARACTERISTICS



REAR SIDE POWER GAIN

(660W Front Power Referenced)

Rear Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax)	693	726	759	792	825
Short Circuit Current (Isc)	19.32	20.24	21.05	21.96	22.88
Open Circuit Voltage (Voc)	45.60	45.60	45.80	45.80	45.80
Maximum Power Current (Imp)	18.19	19.06	19.82	20.68	21.54
Maximum Power Voltage (Vmp)	38.10	38.10	38.30	38.30	38.30

TEMPERATURE CHARACTERISTICS

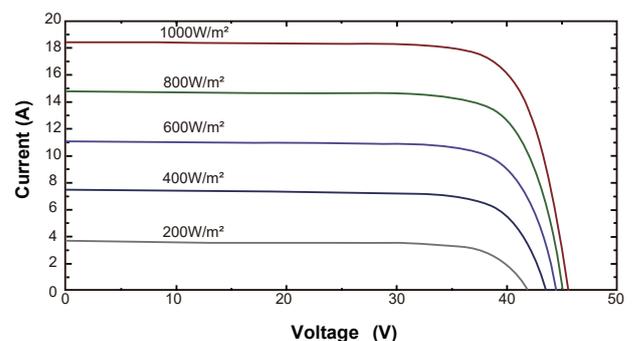
Temp. Coeff. of Isc	0.040%/°C
Temp. Coeff. of Voc	-0.260%/°C
Temp. Coeff. of Pmax	-0.340%/°C

PACKING CONFIGURATION

Container	40' GP
Pieces per Pallet	31
Pieces per Container	527
Pallet Per Container	17

ELECTRICAL CHARACTERISTICS

Current-Voltage Curve (TT660-132PMB12)



*Note: The specifications are obtained under the standard test conditions: 1000W/m² solar irradiance, 1.5 Air Mass and cell temperature of 25°C. The NOCT is obtained under the Test Conditions 800W/m² solar radiation, ambient temperature 20°C, wind speed 1m/s. 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 specifications are subject to change without prior notice.