



Mono Crystalline Half 132 Cells 485-505 watt

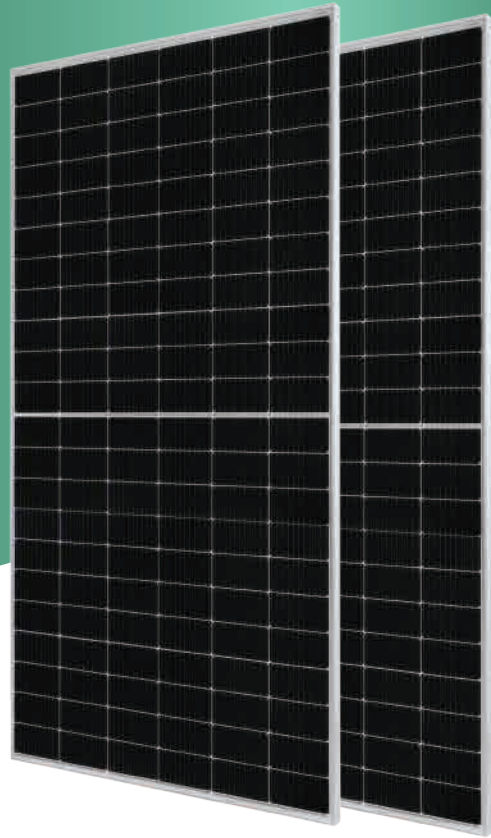
HALF CELL PERC MONO MODULE

Positive power tolerance of 0~+3%

ISO9001:2015

Certified factory

IEC61215/IEC61730



MBB Busbar Solar Cell

Multi busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance making it perfect for rooftop installation.



High Efficiency

Higher module conversion efficiency (up to 21.30%) benefit from Passivated Emmitter Rear Contact (PERC) technology.



PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.



Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



Severe Weather Resilience

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

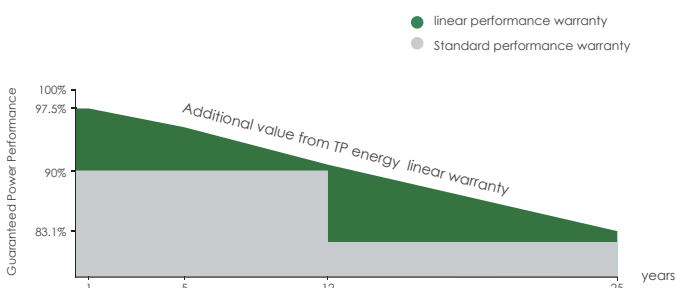


Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV Rheinland.

► Superior Warranty

TP ENERGY SOLAR PERFORMANCE WARRANTY

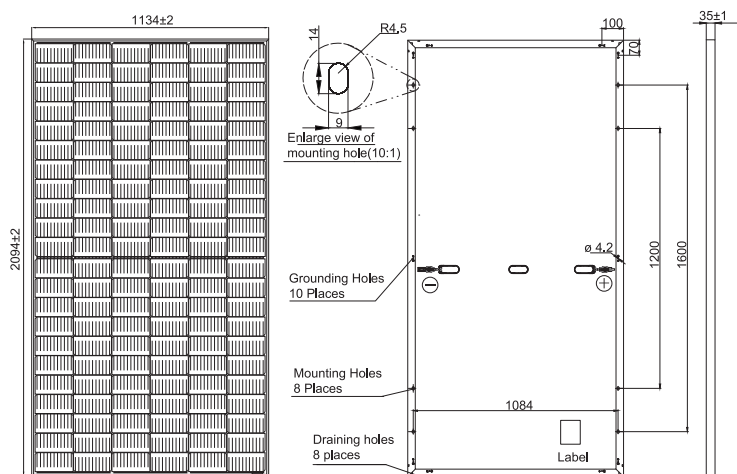


► Comprehensive Certificates

- IEC61215/IEC61730/IEC61701/IEC62716
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO14064: Greenhouse Gases Emissions Verification
- OHSAS 18001: Occupation Health and Safety Management System



► DIMENSIONS OF PV MODULE(mm)



► MECHANICAL DIAGRAMS

Cell Type	Mono PERC 182x83mm
No. of cells	6x11x2
Dimensions	2094x1134x35mm
Weight	26.3kg
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
J-Box	IP68 Rated
Output Cables	TÜV 1x4.0mm ² Length 300+/400-(mm) length can be customized

► Electrical Characteristics

Module Type	TP132-485M/MB-8		TP132-490M/MB-8		TP132-495M/MB-8		TP132-500M/MB-8		TP132-505M/MB-8	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	485Wp	367Wp	490Wp	370Wp	495Wp	374Wp	500Wp	378Wp	505Wp	382Wp
Maximum Power Voltage (Vmp)	37.81V	35.67V	37.99V	35.76V	38.17V	35.84V	38.35V	35.93V	38.53V	36.02V
Maximum Power Current (Imp)	12.83A	10.28A	12.90A	10.36A	12.97A	10.44A	13.04A	10.52A	13.11A	10.60A
Open-circuit Voltage (Voc)	45.20V	42.30V	45.33V	42.43V	45.46V	42.58V	45.59V	42.72V	45.72V	42.86V
Short-circuit Current (Isc)	13.72A	11.06A	13.79A	11.13A	13.86A	11.20A	13.93A	11.27A	14.00A	11.34A
Module Efficiency STC (%)	20.40%		20.60%		20.80%		21.10%		21.30%	

► Temperature Ratings

NMOT (Nominal Module Operating Temperature)	45°C (±2°C)
Temperature Coefficient of Pmax	- 0.35%/°C
Temperature Coefficient of Voc	- 0.275%/°C
Temperature Coefficient of Isc	0.045%/°C

► Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1000/1500VDC (IEC)
Max Series Fuse Rating	25A

► Warranty

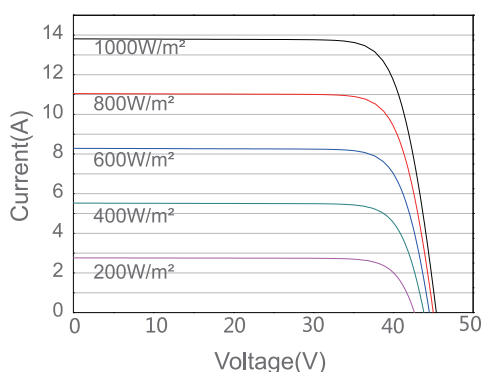
12 Years Product Workmanship Warranty
25 Years Power Warranty

► Packaging Configuration

Modules per pallet:	31pcs
Modules per 40HQ container	682pcs

► I-V-Curve

Current-Voltage Curve TP132-495M/MB-8



Power-Voltage Curve TP132-495M/MB-8

