



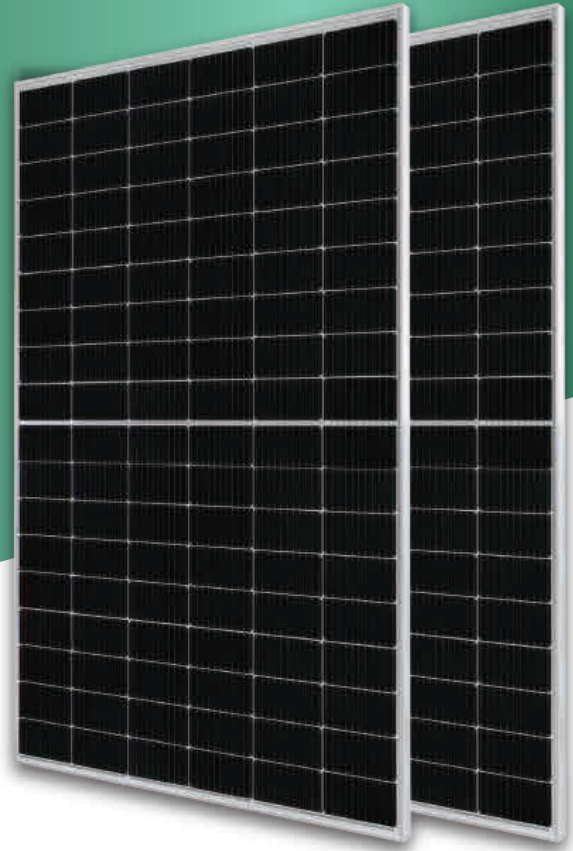
Mono Crystalline Half 108 Cells 390-415 watt

HALF-CELL MONO MODULE

Positive power tolerance of 0~+3%

ISO9001:2015 ISO14001:2015

IEC61215/IEC61730



MBB Busbar Solar Cell

MBB 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 half cell structure (low resistance characteristic).



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).

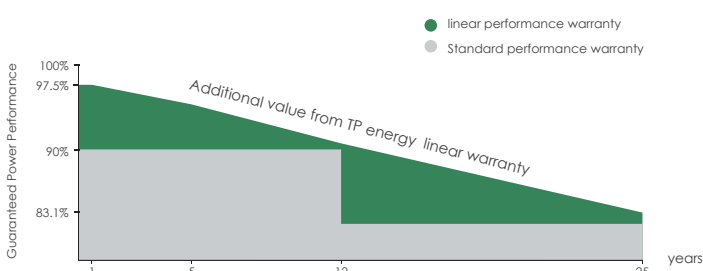


Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV Rheinland.

► Superior Warranty

TP ENERGY SOLAR PERFORMANCE WARRANTY

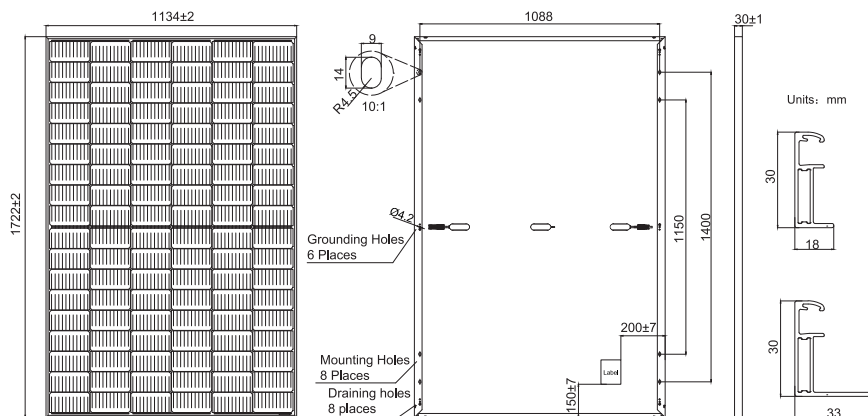


► Comprehensive Certificates

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 166x83mm
No. of cells	6x9x2
Dimensions	1722x1134x30mm
Weight	21.5kg
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	TP108-390M/MB-8		TP108-395M/MB-8		TP108-400M/MB-8		TP108-405M/MB-8		TP108-410M/MB-8		TP108-415M/MB-8	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	390Wp	294Wp	395Wp	298Wp	400Wp	302Wp	405Wp	306Wp	410Wp	310Wp	415Wp	314Wp
Maximum Power Voltage (Vmp)	30.64V	28.87V	30.840V	29.08V	31.01V	29.26V	31.21V	29.47V	31.45V	29.72V	31.61V	29.89V
Maximum Power Current (Imp)	12.73A	10.18A	12.81A	10.25A	12.90A	10.32A	12.98A	10.38A	13.04A	10.43A	13.13A	10.50A
Open-circuit Voltage (Voc)	36.85V	34.62V	36.98V	34.75V	37.07V	34.88V	37.23V	35.12V	37.32V	35.23V	37.45V	35.37V
Short-circuit Current (Isc)	13.61A	10.89A	13.70A	10.96A	13.79A	11.03A	13.87A	11.10A	13.95A	11.16A	14.02A	11.22A
Module Efficiency STC (%)	20.00%		20.20%		20.50%		20.70%		21.00%		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

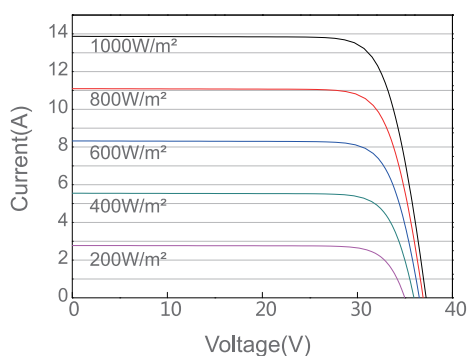
12 Years Product Workmanship Warranty
25 Years Power Warranty

► Packaging Configuration

Modules per pallet:	36pcs
Modules per 40HQ container	936pcs

► I-V-Curve

Current-Voltage & Power-Voltage Curves



Temperature Dependence of Isc, Voc, Pmax

