



Bifacial Mono Crystalline 120 Half Cells

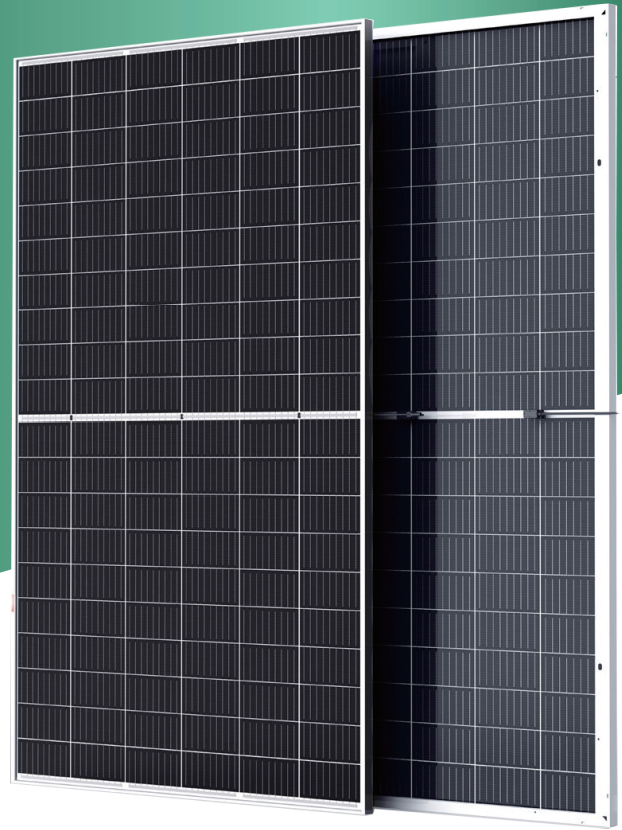
320-340 watt

DUAL GLASS BIFACIAL MONO MODULE

Positive power tolerance of 0~+3%

ISO9001:2015 ISO14001:2015

IEC61215 / IEC61730



9 Busbar Solar Cell

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



Higher Lifetime Power Yield

0.5% annual power degradation
30 year linear power warranty



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.



Saving BOS Cost

Designed for high voltage systems of up to 1500 VDC, saving BOS cost



Higher power output

Module power increases 5-25% generally (per different reflective condition) lower LCOE and higher IRR



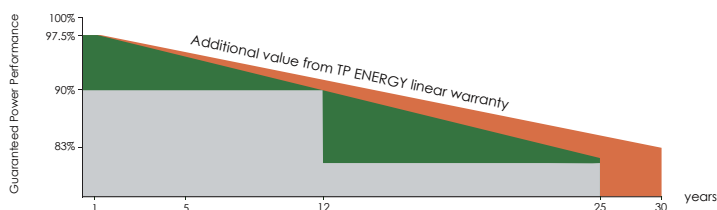
Strengthened Mechanical Support

5400 Pa snow load, 2400 Pa wind load

Superior Warranty

TP ENERGY SOLAR PERFORMANCE WARRANTY

- linear performance warranty
- Standard performance warranty
- P Type Bifacial linear performance warranty

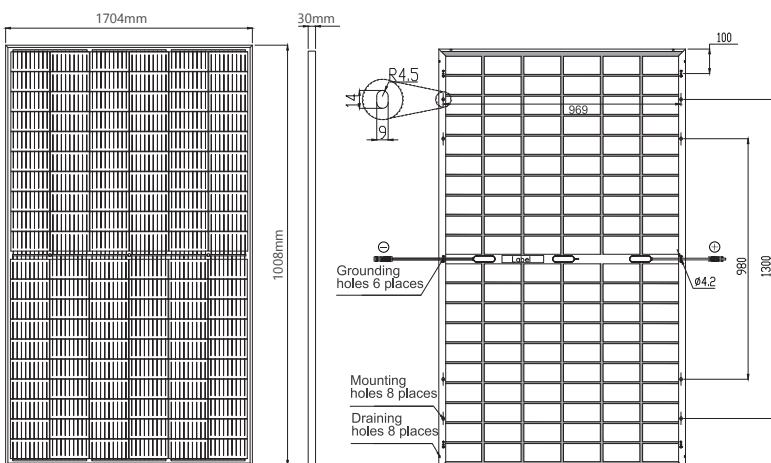


Comprehensive Certificates

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 158.75x79.37mm
No.of cells	120 (6 x 20)
Dimensions	1704x 1008x30 mm
Weight	22.4kg
Front Glass	2.0mm, Anti-Reflection Coating,
Back Glass	2.0mm heat strengthened glass
Frame	Anodized Aluminium Alloy
J-Box	≥ IP 67 rated
Output Cables	TÜV 1 x 4.0mm, ² Length 300+/400- (mm) length can be customized

► Electrical Characteristics

Module Type	TP120-320M-DG		TP120-325M-DG		TP120-330M-DG		TP120-335M-DG		TP120-340M-DG	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	320Wp	239Wp	325Wp	242Wp	330Wp	246Wp	335Wp	250Wp	340Wp	254Wp
Maximum Power Voltage (Vmp)	33.6V	30.5V	33.9V	30.7V	34.2V	31.0V	34.4V	31.3V	34.6V	31.6V
Maximum Power Current (Imp)	9.52A	7.82A	9.59A	7.89A	9.66A	7.94A	9.74A	8.00A	9.83A	8.06A
Open-circuit Voltage (Voc)	40.4V	37.1V	40.7V	37.4V	41.0V	37.7V	41.2V	37.9V	41.5V	38.2V
Short-circuit Current (Isc)	10.01A	8.12A	10.08A	8.17A	10.16A	8.22A	10.23A	8.28A	10.30A	8.33A
Module Efficiency STC (%)	18.62%		18.91%		19.20%		19.50%		19.79%	

► Temperature Ratings

NMOT (Nominal Module Operating Temperature)	45°C (±2°C)
Temperature Coefficient of Pmax	- 0.35%/°C
Temperature Coefficient of Voc	- 0.29%/°C
Temperature Coefficient of Isc	0.048%/°C

► Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500VDC (IEC)
Max Series Fuse Rating	20A
Refer. Bifacial Factor	70±5%

► Warranty

12 Years Product Workmanship Warranty
30 Years Power Warranty

► Packaging Configuration

Modules per pallet:	35pcs
Modules per 40HQ container	910pcs

► Bifacial Output-Rearside Power Gain

		336Wp	341Wp	347Wp	352Wp	357Wp
5%	Maximum Power (Pmax)	336Wp	341Wp	347Wp	352Wp	357Wp
	Module Efficiency STC (%)	19.55%	19.86%	20.16%	20.48%	20.78%
15%	Maximum Power (Pmax)	368Wp	374Wp	380Wp	385Wp	391Wp
	Module Efficiency STC (%)	21.41%	21.75%	22.08%	22.43%	22.76%
25%	Maximum Power (Pmax)	400Wp	406Wp	413Wp	419Wp	425Wp
	Module Efficiency STC (%)	23.27%	23.64%	24.00%	24.38%	24.74%

► I-V-Curve

