

Mono Crystalline 60 Cells 310-330 watt

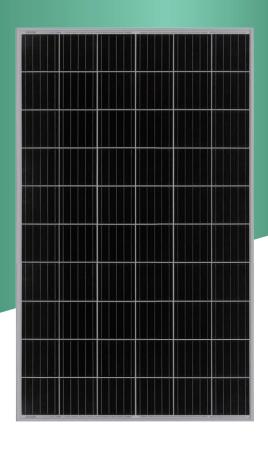
MONO PERC MODULE

Positive power tolerance of $0 \sim +3\%$

ISO9001:2015

Certified factory

IEC61215/IEC61730





5 Busbar Solar Cell

5 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 19.78%) benefit from Passivated Emmiter 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

Inear performance warranty

Standard performance warranty

Additional value from TP energy linear warranty

83.1%

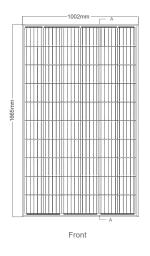
▶ Comprehensive Certificates

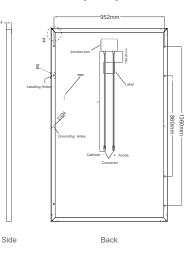
IEC61215/IEC61730/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
IS014064: Greenhouse Gases Emissions Verification
OHSAS 18001: Occupation Health and Safety
Management System





▶ DIMENSIONS OF PV MODULE(mm)





► MECHANICAL DIAGRAMS

Cell Type	Mono PERC 158.75x158.75mm
No.of cells	60 (6 x 10)
Dimensions	1665x 1002x35 mm
Weight	18.0kg
Front Glass	3.2mm,Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
J-Box	IP 67rated
Output Cables	TÜV 1 x 4.0mm,² Length 900mm or Customized Length

▶ Electrical Characteristics

Module Type	TP60-			315M	TP60-3	020111	TP60-3		TP60-3	30M
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)				235Wp			325Wp		330Wp	
Maximum Power Voltage (Vmp)	33.0V	31.0V	33.2V	31.2V	33.4V	31.4V	33.6V	31.6V	33.8V	31.8V
Maximum Power Current (Imp)	9.39A	7.46A	9.49A	7.56A	9.59A	7.62A	9.68A	7.66A	9.77A	7.74A
Open-circuit Voltage (Voc)				37.6V			41.1V		41.3V	
Short-circuit Current (Isc)	9.95A	8.24A	10.04A	8.33A	10.13A	8.42A	10.22A	8.51A	10.31A	8.60A
Module Efficiency STC (%)	18	.58%	18.	.88%	19.	.18%	19.	48%	19.	78%

▶ Temperature Ratings

NMOT (Nominal Module Operating Temperature)	45°C (±2°C)
Temperature Coefficient of PMAX	- 0.36%/°C
Temperature Coefficient of Voc	- 0.29%/°C
Temperature Coefficient of Isc	0.048%/°C

► Maximum Ratings

Operational Temperature	-40~+85°C
Maximum SystemV oltage	1000/1500VDC (IEC)
Max Series Fuse Rating	20A

Warranty

12 Years Product Workmanship Warranty
25 Years Power Warranty

▶ Packaging Configuration

Modules per pallet:	30 pcs
Modules per 40HQ container	780 pcs

► I-V-Curve

