



# 182 PERC

## ZHONGXING

144 half-cell

530-550W

10BB half-cut mono perc



### KEY FEATURES



#### 10BB half-cut cell technology

New circuit design, lower internal current, lower Rs loss  
Ga doped wafer, attenuation < 2% (1st year) / ≤ 0.45% (Linear)



#### Industry leading high yield

Bifacial PERC cell technology,  
5%-25% more yield depends on different conditions



#### Excellent Anti-PID performance

2 times of industry standard Anti-PID test by TUV SUD



#### Wider application

No water-permeability and high wear-resistance,  
can be widely used in high-humid, windy and dusty area



#### IP68 junction box

High waterproof level

### SYSTEM & PRODUCT CERTIFICATES

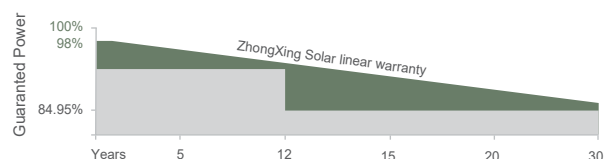
- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015
- CE
- TUV



### PERFORMANCE WARRANTY



- Linear Performance Warranty
- Standard Performance Warranty





## ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	530	395	535	398	540	402	545	406	550	410
Operating Voltage (Vmpp/V)	41.32	38.6	41.48	38.7	41.64	38.8	41.80	39.0	41.96	39.1
Operating Current (Impp/A)	12.83	10.24	12.90	10.30	12.97	10.36	13.04	10.41	13.11	10.47
Open-Circuit Voltage (Voc/V)	49.32	46.4	49.46	46.5	49.60	46.7	49.76	46.8	49.92	47.0
Short-Circuit Current (Isc/A)	13.72	11.06	13.79	11.12	13.86	11.17	13.93	11.23	14.00	11.28
Module Efficiency (%)	20.50		20.70		20.90		21.10		21.30	

STC: Irradiance 1000W/m<sup>2</sup>, Spectra at AM1.5, Module Temperature 25°C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%  
 NMOT: Irradiance 800W/m<sup>2</sup>, Spectra at AM1.5, Ambient Temperature 20°C, Wind speed 1m/s

## MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline Silicon (10Busbar)
No. of Cells	144pcs in series (6*24)
Module Dimensions	2280*1135*35mm (89.76*44.68*1.38inches)
Weight	26.5kg(58.3lbs.)
Front Glass	3.2mm AR Coating Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm <sup>2</sup> (IEC), 12AWG (UL) 300mm in Length or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EVO2

## APPLICATION CONDITIONS

Maximum System Voltage	1000V/1500V/DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	25A
Safety Protection Class	Class II
Mechanical Load (Front side)	5400Pa
Mechanical Load (Back side)	2400Pa

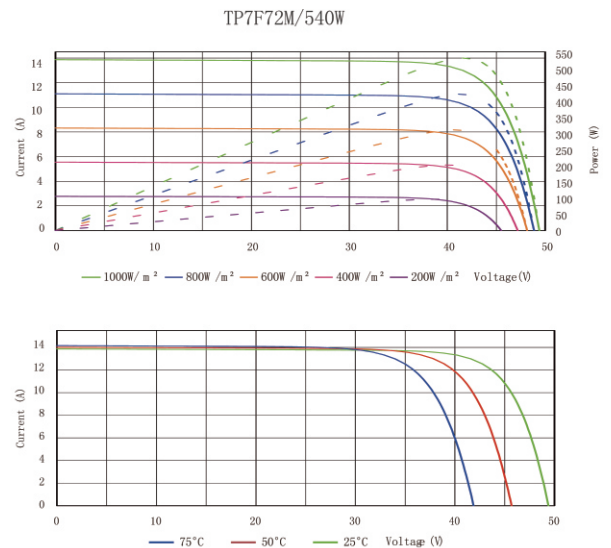
## TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.048%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

## PACKING CONFIGURATION

Pieces Per Pallet	31	31 (USA)
Pieces Per Container(40'HQ)	620	620

## I-V CURVE



## TECHNICAL DRAWINGS

