

TM-SERIES POLYCRYSTALLINE

TM-P672300 · TM-P672295 · TM-P672290 · TM-P672285 · TM-P672280
300W / 295W / 290W / 285W / 280W



FEATURES

- High module conversion efficiency up to 15.4%, through superior manufacturing technology.
- Guaranteed 0 to +5% power tolerance.
- Robust and corrosion free modules. Entire module certificated to withstand high wind loads and snow loads up to 5400Pa.
- Anodized aluminum frame improves load resistance capabilities.
- Highly transparent, low-iron, and tempered glass and antireflective coating.
- Excellent performance under low light environments.

BENEFITS

- International certificates to ensure the best quality and performance.
- Manufacturing process certified under the ISO 9001 standards.
- Product liability insurance.
- Local technical support.
- Enhanced design for easy installation and long term reliability.

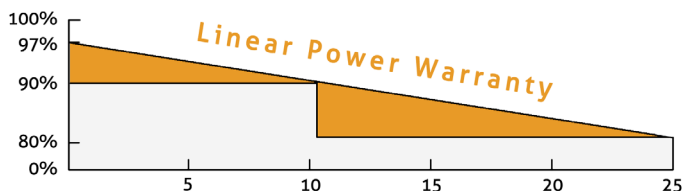


TM-P672300 300W. TM-P672295 295W. TM-P672290 290W. TM-P672285 285W. TM-P672280 280W

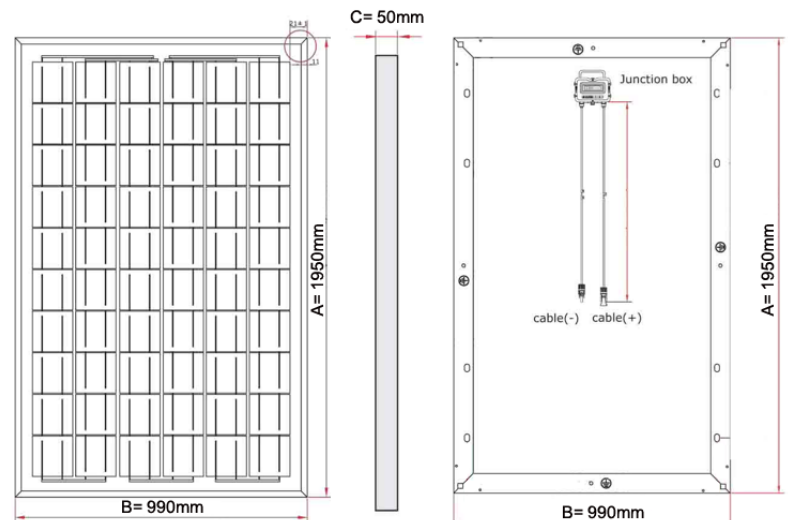


WARRANTIES

- 10-years warranty on material and workmanship.
- Linear power output warranty: power output decrease yearly. Year 25 rated power output not below than 80%.
- Additional warranted production insurance by top world insurance companies.



PHYSICAL CHARACTERISTICS



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ELECTRICAL SPECIFICATION

STC	TM-P672300	TM-P672295	TM-P672290	TM-P672285	TM-P672280
Nominal Power (Pmax)	300 W	295 W	290 W	285 W	280 W
Voltage at Pmax (Vmp)	36.5 V	36.0 V	35.9 V	35.7 V	35.6 V
Current at Pmax (Imp)	8.22 A	8.18 A	8.08 A	7.97 A	7.87 A
Open Circuit Voltage (Voc)	45.3 V	45.1 V	45.0 V	44.9 V	44.9 V
Short Circuit Current (Isc)	8.79 A	8.58 A	8.44 A	8.36 A	8.26 A
Module efficiency	15.54%	15.28%	15.02%	14.76%	14.50%
Power Tolerance	0, +5%				
Max. system voltage	1.000 V DC				
Max. series fuse rating	20 A				
Operating temperature range	-40 °C to +85 °C				

Electric characteristics at standard conditions (STC)

STC conditions: Irradiance: 1.000W/m2, cell temperature: 25°C, AM=1.5

NOCT	TM-P672300	TM-P672295	TM-P672290	TM-P672285	TM-P672280
Nominal Power (Pmax)	218 W	215 W	211 W	207 W	204 W
Voltage at Pmax (Vmp)	33.6 V	33.3 V	32.8 V	32.4 V	32.1 V
Current at Pmax (Imp)	6.5 A	6.46 A	6.43 A	6.4 A	6.36 A
Open Circuit Voltage (Voc)	42.2 V	41.9 V	41.7 V	41.4 V	41.3 V
Short Circuit Current (Isc)	6.95 A	6.91 A	6.89 A	6.87 A	6.83 A

Electric characteristics at normal operation conditions (NOCT)

NOCT conditions: Irradiance: 800W/m2, ambient temperature: 20°C, AM=1.5, wind speed: 1m/s

THERMAL CHARACTERISTICS

Nominal operating cell temperature (NOCT)	45 ± 2 °C
Temperature coefficient of Pmax	-0.45 %/°C
Temperature coefficient of Voc	-0.33 %/°C
Temperature coefficient of Isc	+0.06 %/°C
Temperature coefficient of Vmp	-0.420 %/°C

PACKAGING

Modules per pallet	20
Nº of pallets per HC container (40')	22

PARTNER

MECHANICAL CHARACTERISTICS

Solar cells	Poly-crystalline silicon 156x156 mm
Cell arrangement	72 cells in series
Dimensions	1950x990x50 mm
Weight	27.5 kg
Max. load	5400 Pa
Front cover	Low-iron tempered glass 3.2 mm
Frame	Anodized aluminum alloy
Encapsulant	EVA (ethylene vinyl acetate)
Junction box (protection degree)	IP65
Bypass diodes	6
Cables (length / area)	≥1000 mm / 4 mm ²
Connectors	MC4

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