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EnergyPal

Solar Panel Guide Specification Data Sheet

**Tianke Energy Saving
TESPV 250-300W Poly
TESPV 285W Poly**

Also available on the web at
EnergyPal.com/tianke-energy-saving-solar-panels/tespv-285w-poly



TES Group Limited

Add: Wealth Commercial Center, 48 Kwong Wa Street, Mongkok, Kowloon, Hong Kong

Tel: 0086-756-8929265

E-mail: tes@teswin.com URL: www.tessolarwater.com

...a member of TES Group of Companies

TESPV 250-300W Polycrystalline POLY CRYSTALLINE 6"



Silicon Polycrystalline photovoltaic module with power peak from 250 W to 300 W



FEATURES

Using only the best quality materials to provide High quality solar module.

- High efficiency solar cells with high transmission and low iron textured glass;
- Bypass diode minimizes the power drop caused by shading;
- Tempered glass, EVA resin, and weatherproof film, plus aluminum frame for extended outdoor use;
- Modules independently tested to ensure conformance with certification and regulatory standards;
- Manufacturing facility certified to ISO 9001 quality management system standards.



WARRANTY

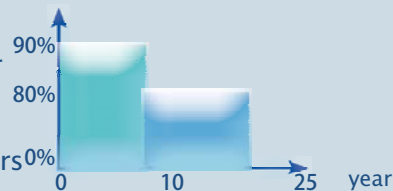
5 years product guarantee - 25 years performance warranty

Commercial

- Standard 5 years on materials and manufacturing defects
- Can be extended to 10 years on request

Performance

- Power not less than 90% of power peak during the first 10 years
- Power not less than 80% of power peak during the subsequent 15 years





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| Model | Open Circuit Voltage Voc (V) | Short Circuit Current Isc (A) | Optimum Operating Voltage Vmp (V) | Optimum Operating Current Imp (A) | Rated Maximum Power at STC Pmax (W) | Maximum Series Fuse Rating (A) | Power Tolerance |
|--------------|------------------------------|-------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|--------------------------------|-----------------|
| TESPV 250W P | 43.4 | 7.71 | 35 | 7.14 | 250 | 15 | ±3% |
| TESPV 255W P | 43.4 | 7.87 | 35 | 7.29 | 255 | 15 | ±3% |
| TESPV 260W P | 43.4 | 7.95 | 35 | 7.43 | 260 | 15 | ±3% |
| TESPV 265W P | 44 | 8.06 | 35.5 | 7.46 | 265 | 15 | ±3% |
| TESPV 270W P | 44 | 8.14 | 35.3 | 7.61 | 270 | 15 | ±3% |
| TESPV 275W P | 44 | 8.3 | 35.5 | 7.75 | 275 | 15 | ±3% |
| TESPV 280W P | 44.6 | 8.41 | 36 | 7.78 | 280 | 15 | ±3% |
| TESPV 285W P | 44.6 | 8.57 | 36 | 7.91 | 285 | 15 | ±3% |
| TESPV 290W P | 44.6 | 8.69 | 36.5 | 7.95 | 290 | 15 | ±3% |
| TESPV 295W P | 44.8 | 8.70 | 36.8 | 7.98 | 295 | 15 | ±3% |
| TESPV 300W P | 44.8 | 8.80 | 37.2 | 8.10 | 300 | 15 | ±3% |

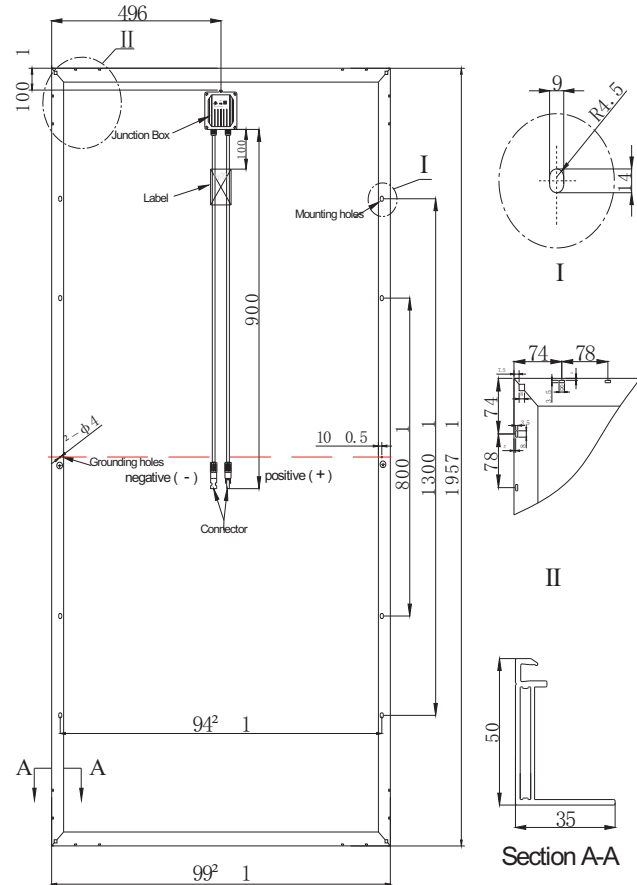
| MECHANICAL FEATURES | | |
|---------------------|------------------------------------|------------------|
| Cell Size | (mm) | 156 x 156 |
| Number of cells | 72 cells - polycrystalline silicon | |
| Module Dimensions | (mm) | 1,957 x 992 x 50 |
| Module Weight | (kg) | 22.5 |
| Front Glass | 3.2 mm tempered glass | |
| Frame | anodized aluminium alloy | |
| Junction box | 6 by-pass diodes | |
| Connectors | IP67 type MC3 or MC4 | |
| Output Cables | (mm) | 900 |

| PACKING FEATURES | | |
|----------------------------|------------|--------------------------|
| Pallet Dimensions | (mm) | 2,025 x 1,050 x h1,152 |
| Pallet Weight | (kg) | 485 |
| 1 Pallet | 20 modules | |
| Container Loading Capacity | 20ft | 200 modules (10 pallets) |
| | 40ft | 440 modules (22 pallets) |

Temperature Coefficients

| | |
|--|-----------|
| Notinal Operating cell Temperature(NOCT) | 47 ± 2°C |
| Temperature Coefficient of Pmax | -0.43%/°C |
| Temperature Coefficient of Voc | -0.33%/°C |
| Temperature Coefficient of Isc | +0.04%/°C |

* XXX indicates Rated Power [W]



Characteristics Curve

