# Solar Panel Guide Specification Data Sheet 

Tianke Energy Saving<br>TESPV 250-300W Poly<br>TESPV 300W Poly

Silicon Polycrystalline photovoltaic module with power peak from 250W to 290W

## TES Group Limited

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...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 IS0 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 frst 10 years
- Power not less than $80 \%$ of power peak during the subsequent 15 years $0 \%{ }_{0}$



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| Model | Open Circuit Voltage Voc (V) | Short Circuit Current Isc <br> (A) | Optimum Oprating Voltage Vmp (V) | Optimum Oprating 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 | $\pm 3 \%$ |
| TESPV 255W P | 43.4 | 7.87 | 35 | 7.29 | 255 | 15 | $\pm 3 \%$ |
| TESPV 260W P | 43.4 | 7.95 | 35 | 7.43 | 260 | 15 | $\pm 3 \%$ |
| TESPV 265W P | 44 | 8.06 | 35.5 | 7.46 | 265 | 15 | $\pm 3 \%$ |
| TESPV 270W P | 44 | 8.14 | 35.3 | 7.61 | 270 | 15 | $\pm 3 \%$ |
| TESPV 275W P | 44 | 8.3 | 35.5 | 7.75 | 275 | 15 | $\pm 3 \%$ |
| TESPV 280W P | 44.6 | 8.41 | 36 | 7.78 | 280 | 15 | $\pm 3 \%$ |
| TESPV 285W P | 44.6 | 8.57 | 36 | 7.91 | 285 | 15 | $\pm 3 \%$ |
| TESPV 290W P | 44.6 | 8.69 | 36.5 | 7.95 | 290 | 15 | $\pm 3 \%$ |
| TESPV 295W P | 44.8 | 8.70 | 36.8 | 7.98 | 295 | 15 | $\pm 3 \%$ |
| TESPV 300W P | 44.8 | 8.80 | 37.2 | 8.10 | 300 | 15 | $\pm 3 \%$ |


| MECHANICAL FEATURES |  |  |
| :---: | :---: | :---: |
| Cell Size | (mm) | $156 \times 156$ |
| Number of cells | 72 cells - polycrystalline silicon |  |
| Module Dimensions | (mm) | $1,957 \times 992 \times 50$ |
| 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 | $(\mathrm{mm})$ | $2,025 \times 1,050 \times \mathrm{h} 1,152$ |
| Pallet Weight | $(\mathrm{kg})$ |  |
| 1 Pallet | 20 modules |  |
| Container Loading Capacity | 20 ft | 200 modules (10 pallets) |
|  | 40 ft | 440 modules (22 pallets) |

## Temperature Coefficients

Notinal Operating cell Temperature(NOCT) $47 \pm 2^{\circ} \mathrm{C}$
$\begin{array}{ll}\text { Temperature Coefficent of Pmax } & -0.43 \% /{ }^{\circ} \mathrm{C} \\ \text { Temperature Coefficient of Voc } & -0.33 \% /{ }^{\circ} \mathrm{C} \\ \text { Temperature Coefficient of Isc } & +0.04 \% /{ }^{\circ} \mathrm{C}\end{array}$

* XXX indicates Rated Power [W]


Characteristics Curve



