



TES Group Limited

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

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

...a member of TES Group of Companies

TESPV 285-300W Monocrystalline MONO CRYSTALLINE 6"



Silicon Monocrystalline photovoltaic module



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

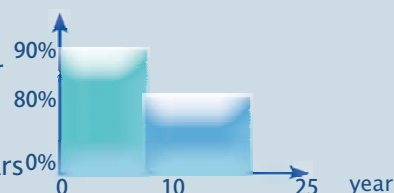
5 years product guarantee -25 years performance warranty

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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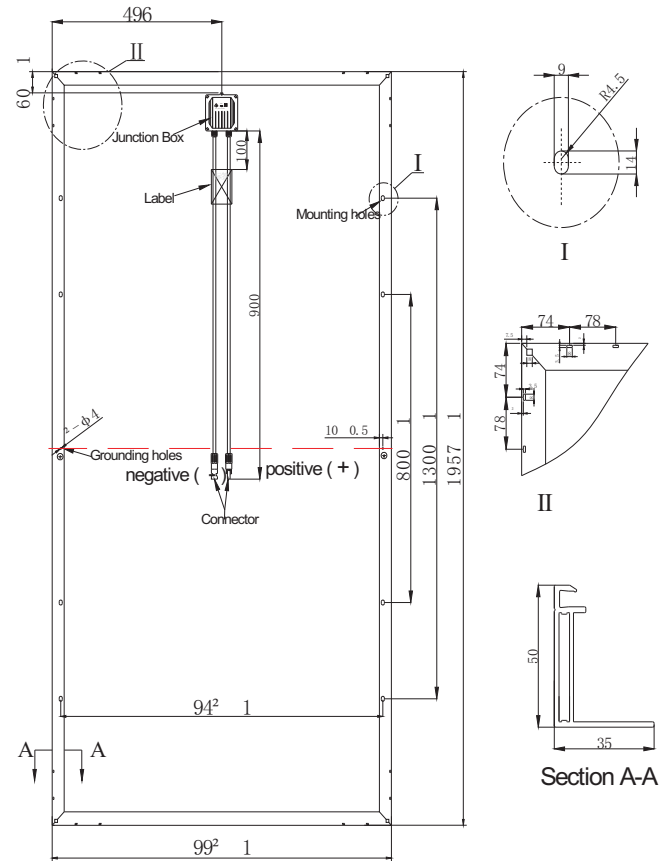


ELECTRICAL FEATURES

		STC			
Type	Model	xxx Rated Power [W]			
TESPV xxxW Monocrystalline		285	290	295	300
Module Efficiency	η_m (%)	15.80	16.10	16.35	16.63
Cell Efficiency	η_c (%)	16.57	16.90	17.16	17.45
Power Peak	Pm (W)	285	290	295	300
Maximum Power Voltage	Vm (V)	36.20	36.20	36.70	36.70
Maximum Power Current	Im (A)	7.87	8.01	8.04	8.17
Open Circuit Voltage	Voc (V)	44.90	44.90	45.50	45.50
Short Circuit Current	Isc (A)	8.50	8.65	8.68	8.83
Maximum System Voltage	(VDC)	1,000			
Power Output Tolerance	(W)	0 / + 5			
Max-Series Fuse	(A)	20			
Operating/Storage Temp.	(C)	- 40 ~ + 85			
Dielectric Insulation Voltage	(VDC)	3,000 max			
Code	MFM	M50326	M50327	M50328	M50329
STC: Irradiance 1,000 W/m ² , module temperature 25 C, AM=1.5					
Power measurement tolerance: 3%					

MECHANICAL FEATURES

Cell Size	(mm)	156 x 156
Number of cells	72 cells - monocrystalline 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

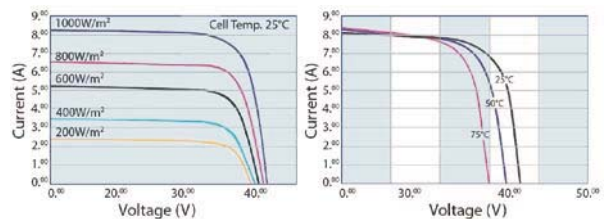


* XXX indicates Rated Power [W]

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

CURVE CURRENT - VOLTAGE



PACKING FEATURES

Pallet Dimensions	(mm)	2,025 x 1,050 x h,152
Pallet Weight	(kg)	955
1 Pallet	20 modules	
Container Loading Capacity	20ft	200 modules (10 pallets)
	40ft	440 modules (22 pallets)