



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

TES PV Module

TESPV-280W,285W,290W,295W,300W Mono-crystalline Solar Panel

EFFICIENCY

- Low voltage-temperature coefficient allows higher Power output at high-temperature condition
- High efficient, high reliable solar cells ensure our Product output stability

MATERIALS

- Advanced EVA encapsulation system with triple-layer back sheet meets the most stringent safety requirements for high-voltage operation
- The sturdy, anodized aluminum frame allows the modules to be mounted on a variety of standard racking systems and to withstand harshest conditions
- Ultra reliable bypass diodes prevent damage through Overheating due to shaded or defective cells
- Innovative, environmentally friendly packing method Using pile-edges insures modules arrive in perfect condition
- New frame design incorporating hexagonal shaped Drainage holes, with more grounding holes, provide Flexible installation and use

BENEFITS

- Manufactured in an IEC61215,IEC61730,ISO 9001:20 CE certified plant
- High efficiency ,high safety, high reliability
- Output power tolerance of +3 %
- 25-years Limited warranty on Power output,10-years limited warranty on materials and workmanship



NOTE

This publication summarizes product warranty and specifications, which are subject to change without notice, additional information may be found on our web site: www.tessolarwater.com



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SPECIFICATIONS—TUV certified

ITEM NO	TESPV-280W	TESPV-285W	TESPV-290W	TESPV-295W	TESPV-300W
	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline
Maximum Power(Wp)	280	285	290	295	300
Maximum Power Voltage(V)	36.1	36.4	36.8	36.9	37.1
Maximum Power Current(A)	7.76	7.83	7.88	7.99	8.09
Open Circuit Voltage(V)	43.32	43.68	44.17	44.29	44.53
Short Circuit Current(A)	8.53	8.61	8.67	8.79	8.9
Size of Module(mm)	1956mm X992mm X 50mm				
Size of Glass(mm)	1950mm X 984mm X 3.2mm				
Size of solar cells(mm)	Mono 156solar cells				
Number of cells(Pcs)	6 x 12				
Maximum System Voltage(V)	1000 (TUV)/600(UL)				
Temperature Coefficients of Isc(%)	0.065%/°C				
Temperature Coefficients of Voc(%)	-0.35%/°C				
Temperature Coefficients of Pm(%)	-0.40%/°C				
Nominal operating cell temperature	47°C±2°C				
Temperature Range	-40°C +85°C				
Surface Maximum Load Capacity	2400 Pa				
Maximum Wind Load Capacity	5400 Pa				
Allowable Hail Load	25mm@80km/h				
Weight Per Piece (kg)	24kgs				
Efficiency for module	14.5%	14.76%	15.02%	15.28%	15.54%
Efficiency for cell	16.19%	16.48%	16.77%	17.06%	17.35%
Warranty	10 years product warranty and 90% of power output for the first 12 years of the modules life and 80% for the next 13 years for a total of 25 years warranty				
Packing	374pcs/40'' container ,11 pallets,34pcs per pallet 170pcs/20'' container , 5 pallets ,34pcs per pallet				

Note: The specifications and obtained under the standard Test Conditions (STCs):1000W/ m² solar irradiance, 1.5 Air Mass, and cell temperature of 25°C

Electrical Performance cell temperature: 25°C



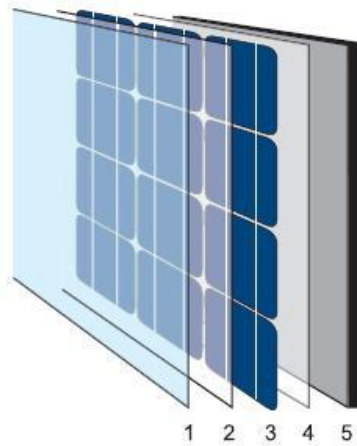
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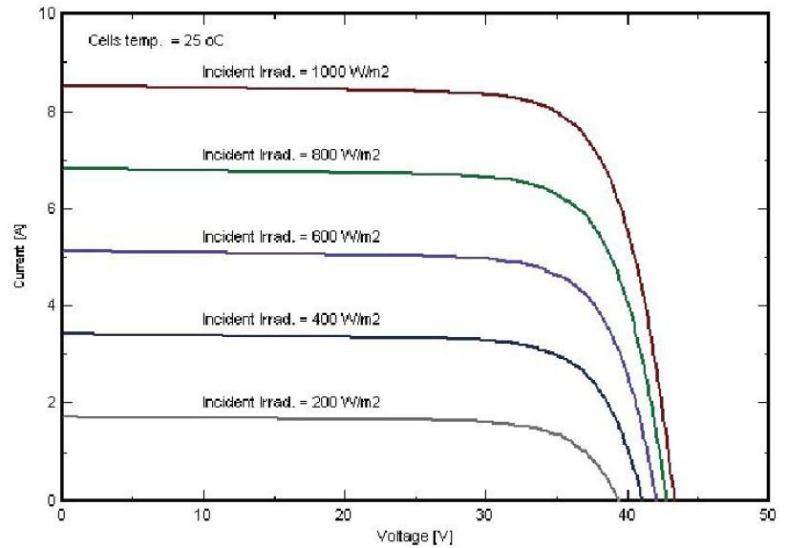
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- 1 Tempered glass
- 2 EVA
- 3 Cells
- 4 EVA
- 5 Multi-layer back sheet



PHYSICAL CHARACTERISTICS Unit:mm

