

# TPG-P6T Series

## 175 – 190 WATT

### HIGH QUALITY POLY-CRYSTALLINE PV MODULES

#### TRANS-PACIFIC ENERGY GROUP

Using automated production lines, top of the line solar cells and materials complying to highest industry standards, Trans-Pacific Energy Group provides a complete set of poly and mono-crystalline PV modules ranging from **20W to 275W**.

Trans-Pacific Energy Group offers panels for use in small off-grid systems to the largest on-grid solar farms. Panels are tested and qualified for the severest weather conditions.



FEATURES	BENEFITS
15.12% - 16.37% solar cell efficiency 13.36% - 14.51% module efficiency	Generate more energy per square meter
Protective, Bypass diodes	Avoids effect of partial shading
Factory equipped weatherproof junction box Waterproof(UL94, V-O) connector Provides nominal 24 DC output	Flawless operation in wet weather and marine applications Perfect for <b>GRID</b> applications
White tempered glass EVA resin Weather proof film Anodized aluminum frame	Resilient to harsh weather conditions
Highest standards in manufacturing and design quality Cleanroom-like production line ISO9001:2000	Optimal panel performance Long term product performance

#### STANDARD QUALIFICATIONS

IEC61215 – Certified by TUV  
CE

#### INVESTMENT PROTECTION

5 years product workmanship guarantee  
12 years product warranty 90% power output  
25 years product warranty 80% power output



#### QUALITY ASSURANCE

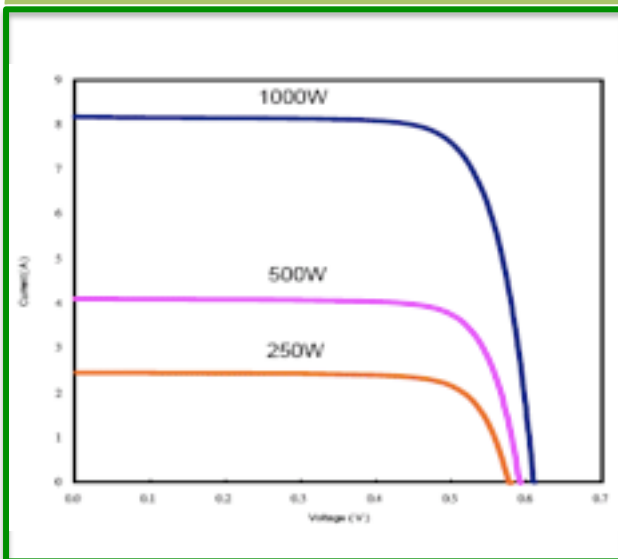
- ISO9001:2000
- Electrical insulation test
- Outdoor exposure test
- Hot spot endurance test
- UV exposure IEC61345
- Thermal cycling
- Humidity freeze
- Damp heat test
- Robustness of termination test
- Wet leakage current test
- Mechanical load test
- Hail impact test
- Bypass diode thermal test

# TPG-P6T Series

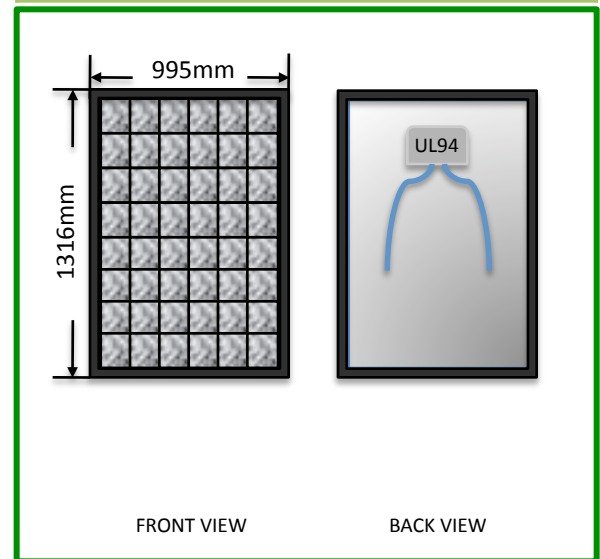
Electrical Characteristics	P6T175	P6T180	P6T185	P6T190
Maximum Power [W]	179.9	184.9	189.9	194.9
Tolerance	± 5%	± 5%	± 5%	± 5%
Open circuit Voltage [V]	28.85	29.14	29.38	29.47
Short circuit Current [A]	7.95	8.10	8.23	8.32
Maximum Power Voltage [V]	24.10	24.29	24.48	24.53
Maximum Power Current [A]	7.26	7.41	7.56	7.75
Module Efficiency [%]	13.36	13.75	14.13	14.51
Solar Cell Efficiency [%]	15.12	15.62	16.12	16.37
Series Fuse Rating [A]	10	10	10	10
Terminal Box	IP65	IP65	IP65	IP65
Maximum System Voltage [V]	DC1000	DC1000	DC1000	DC1000
Operating Temperature [C]	-40 to 85	-40 to 85	-40 to 85	-40 to 85

## I V Curve

Current-Voltage characteristics at various irradiance levels



## Frame Diagram



## Temperature Coefficients

Short circuit current (mA/C)	+3.9
Open circuit voltage (V/C)	-0.095
Maximum power (%/C)	-0.4

## Mechanical Characteristics

Frame	Aluminum
Dimension (L x W x D)	51.81" x 39.17" x 1.97" / 1316mm x 995mm x 50mm
Weight	17.0 kg/pc
Packing	10pcs/carton
Loading/container	320pcs/20ft; 680/40ft