

TPG-P6T Series

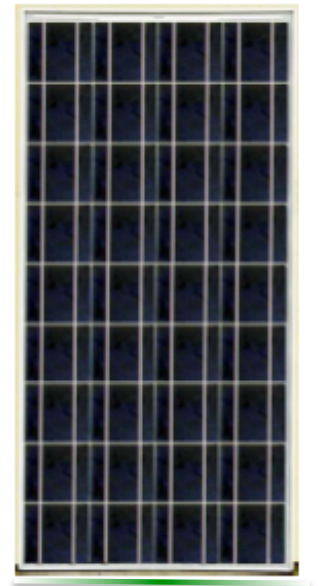
120 – 140 WATT

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
13.75% - 16.12% solar cell efficiency 12.25% - 14.29% 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 12 DC output	Flawless operation in wet weather and marine applications Perfect for GRID and OFF-GRID 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

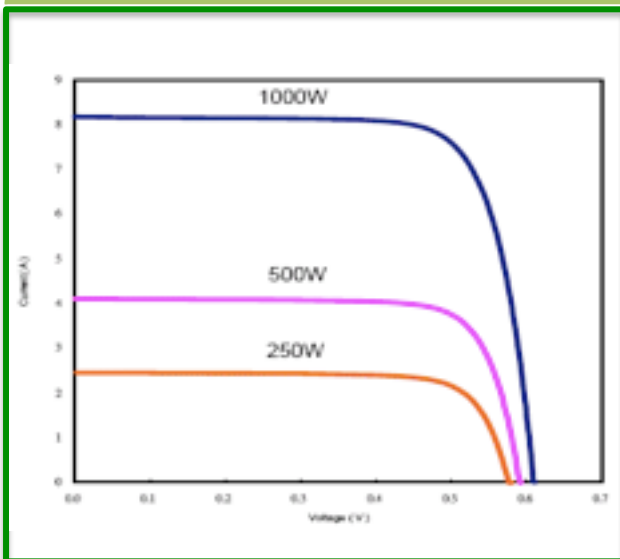
- ISO9001:2000
- Electrical insulation test
- Outdoor exposure test
- Hot spot endurance test
- UV exposure IEC61345
- Thermal cycling
- Humidity freeze
- Damp heat test
- Robustness of termination test
- Wet leakage current test
- Mechanical load test
- Hail impact test
- Bypass diode thermal test

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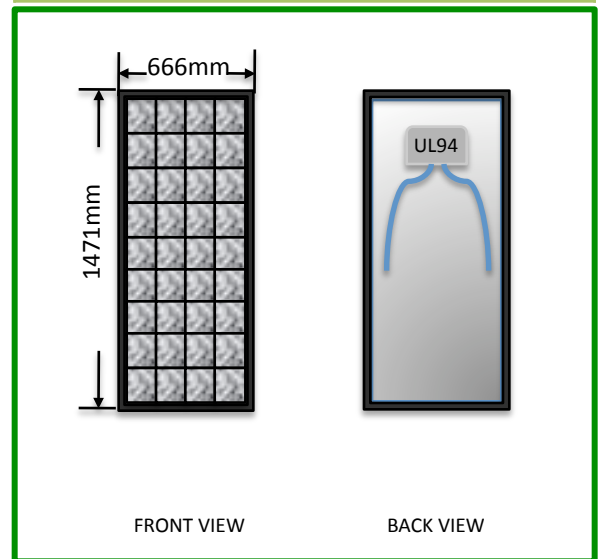
Electrical Characteristics	P6T120	P6T125	P6T130	P6T135	P6T140
Maximum Power [W]	124.9	129.9	134.9	139.9	144.9
Tolerance	± 5%	± 5%	± 5%	± 5%	± 5%
Open circuit Voltage [V]	21.53	21.56	21.60	21.74	22.03
Short circuit Current [A]	7.35	7.60	7.83	8.04	8.23
Maximum Power Voltage [V]	17.57	17.78	17.96	18.14	18.36
Maximum Power Current [A]	6.83	7.03	7.24	7.44	7.63
Module Efficiency [%]	12.25	12.76	13.27	13.78	14.29
Solar Cell Efficiency [%]	13.75	14.37	14.87	15.37	16.12
Series Fuse Rating [A]	10	10	10	10	10
Terminal Box	IP65	IP65	IP65	IP65	IP65
Maximum System Voltage [V]	DC1000	DC1000	DC1000	DC1000	DC1000
Operating Temperature [C]	-40 to 85	-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)	57.91" x 26.22" x 1.38" / 1471mm x 666mm x 35mm
Weight	12.0 kg/pc
Packing	14pcs/carton
Loading/container	448pcs/20ft; 896/40ft