

# TPG-M5T Series

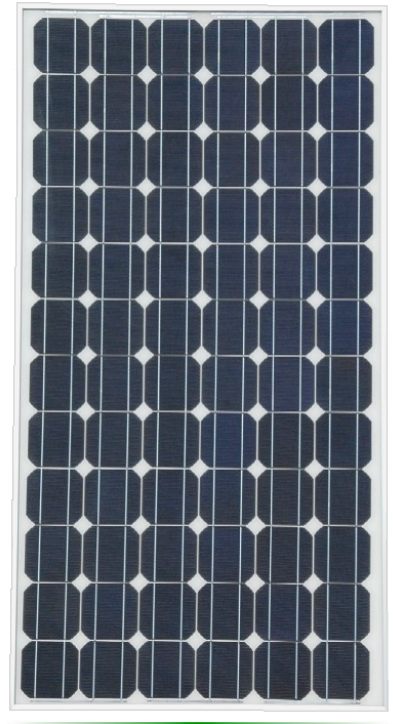
## 150 – 170 WATT

### HIGH QUALITY MONO-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
14.60% - 15.87% solar cell efficiency 11.54% - 13.07% 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

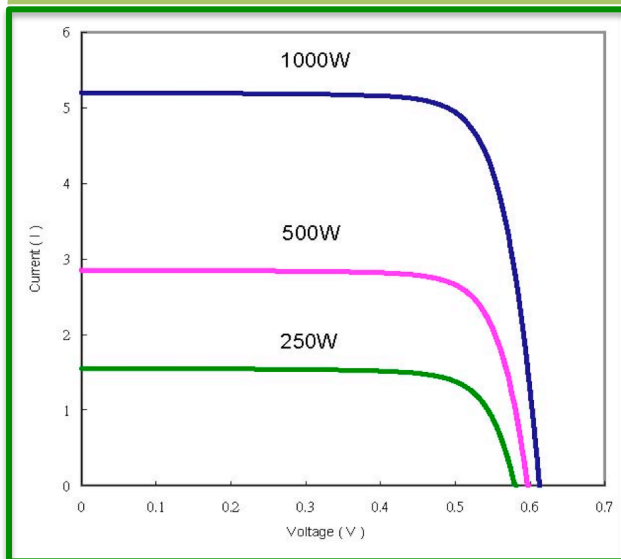
- ISO9001:2000
- Electrical insulation test
- Outdoor exposure test
- Hot spot endurance test
- UV exposure IEC61345
- Thermal cycling
- Humidity freeze
- Damp heat test
- Robustness of termination test
- Wet leakage current test
- Mechanical load test
- Hail impact test
- Bypass diode thermal test

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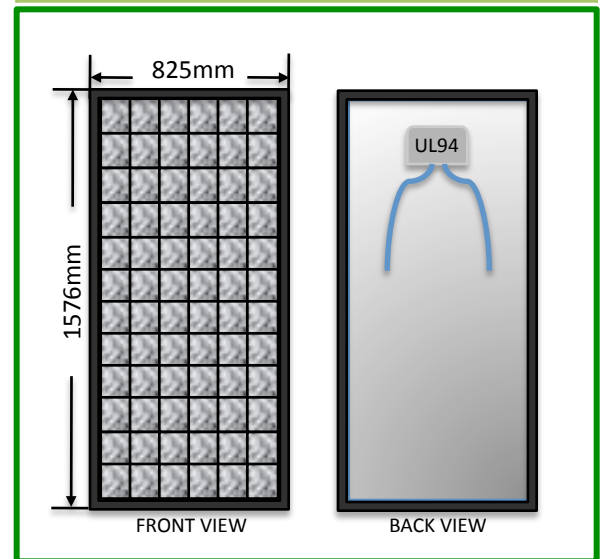
Electrical Characteristics	M5T150	M5T155	M5T160	M5T165	M5T170
Maximum Power [W]	154.9	159.9	164.9	169.9	174.9
Tolerance	± 5%	± 5%	± 5%	± 5%	± 5%
Open circuit Voltage [V]	43.49	43.49	43.63	43.78	43.92
Short circuit Current [A]	4.79	4.79	4.84	4.94	5.06
Max. Power Voltage [V]	35.42	35.42	35.86	36.14	36.43
Max. Power Current [A]	4.24	4.38	4.46	4.57	4.67
Module Efficiency [%]	11.54	11.92	12.31	12.69	13.07
Solar Cell Efficiency [%]	14.60	14.62	14.87	15.37	15.87
Series Fuse Rating [A]	10	10	10	10	10
Terminal Box	IP65	IP65	IP65	IP65	IP65
Max. System Voltage [V]	DC1000	DC1000	DC1000	DC1000	DC1000
Operating Temp. [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)	+2.5
Open circuit voltage (V/C)	-0.147
Maximum power (%/C)	-0.4

## Mechanical Characteristics

Frame	Aluminum
Dimension (L x W x D)	62.05" x 32.48" x 1.97" / 1576mm x 825mm x 50mm
Weight	17.0 kg/pc
Packing	10pcs/carton
Loading/container	280pcs/20ft; 560/40ft