

# TP672P

Peak Power: 280–310 Wp

## Module characteristics:

- Positive only power tolerance: 0 to +3 %
- High mechanical load strength: Product to withstand high loading pressure of 5400 Pa in accordance with IEC 61215ed.2
- Fully automated production line:
  - Better soldering
  - Better cell spacing tolerance:  $\pm 0.3$  mm
  - Better and more consistent product quality
- No potential induced degradation (PID)
- All Talesun modules have been tested and certified by TUV for ammonia resistance and salt mist corrosion.

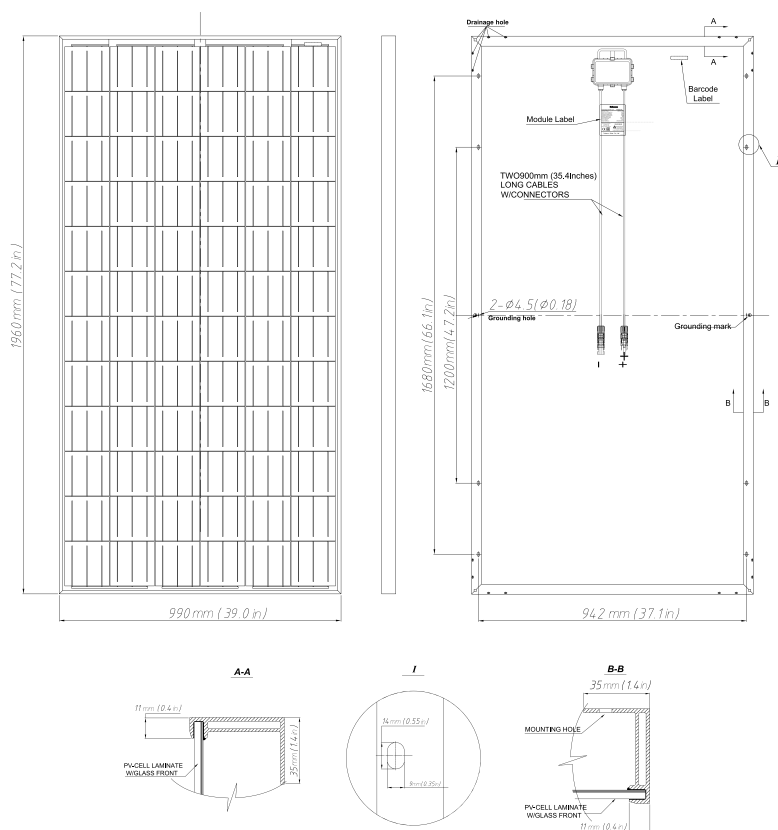


## Electrical parameters\*:

MODEL	280	285	290	295	300	305	310
Maximum rated power at STC (Pmax)	280W	285W	290W	295W	300W	305W	310W
Voltage at maximum power (Vmpp)	35.7V	35.8V	35.9V	36.0V	36.1V	36.2V	36.3V
Current at maximum power (Impp)	7.86A	7.97A	8.09A	8.22A	8.33A	8.43A	8.55A
Open circuit voltage (Voc)	44.5V	44.6V	44.7V	44.9V	45.0V	45.1V	45.2V
Short circuit current (Isc)	8.56A	8.65A	8.72A	8.80A	8.88A	8.97A	9.07A
Module efficiency $\eta$ (%)	14.4	14.7	14.9	15.2	15.5	15.7	16.0
Power tolerance	0 to +3 %						
Temperature coefficient	Pmpp	-0.45 % / °C					
	Voc	-0.35 % / °C					
	Isc	+0.05 % / °C					
	NOCT	45 ± 2 °C					

\* STC: Standard Test Conditions at 1000 W/m<sup>2</sup>, Cell temperature 25 °C, AM 1.5

## Technical drawings:



## Dimensions:

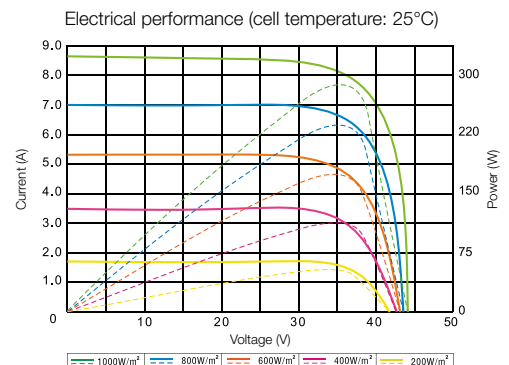
Cell type	Poly Crystalline
Cell dimensions	156×156 mm (6 inch)
Cell arrangement	6 × 12 (72)
Weight	22 kg
Module dimensions	1960×990×50 mm
Cable length	900 mm
Cable cross section size	4 mm <sup>2</sup>
No. of bypass diodes	3/6
Packing configuration	20 per pallet
Frame	Anodized Aluminium
Junction box	IP 65 rate

## Operating conditions:

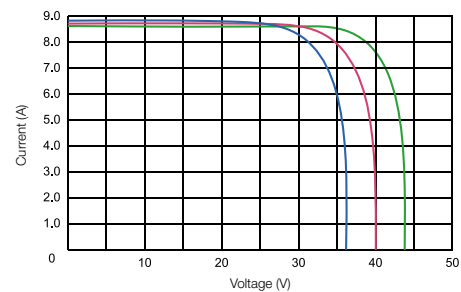
Maximum system voltage	1000 V/DC (IEC)
Operating temperature	-40 °C to +85 °C
Maximum reverse current (I <sub>R</sub> )	15 A
Static loading	5400 Pa
Conductivity at ground	0.1 Ω
Safety class	II
Resistance	≥100 MΩ
Connector	MC4 or identical in construction

## I-V curve:

Output under different radiation and temperature conditions.

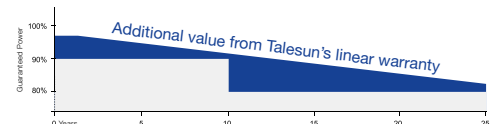


TP672P P<sub>m</sub>(W)290



## Warranty:

Product Quality Warranty: 10 years



Power warranty –

performance as set forth below:

- During the first year, Talesun guarantees the actual power output of the module will be no less than 97% of the labeled power output.
- From year 2 to year 24, the actual annual power decline will be no more than 0.7%; by the end of year 25, the actual power output will be no less than 80% of the labeled power output.

**25 year insurance-based guarantee to ensure our product and power output warranty (with non cancelable term).**

## Certifications & Standards:

- IEC 61215ed.2
- UL 1703
- IEC 61701
- ISO 9001:2008
- IEC 61730
- ISO 14001:2004
- IEC 62716
- OHSAS 18001:2007