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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Tamrons Active International Limited**

**TMM310~335**

**TMM315-122**

Also available on the web at  
[EnergyPal.com/tamrons-active-international-limited-solar-panels/tmm315-122](http://EnergyPal.com/tamrons-active-international-limited-solar-panels/tmm315-122)

### Electrical Data

Model - STC		TMM310-122	TMM315-122	TMM320-122	TMM325-122	TMM330-122	TMM335-122
Maximum Rating Power (Pmax)	[W]	310	315	320	325	330	335
Module Efficiency	[%]	18.7	19.0	19.3	19.6	19.9	20.2
Open Circuit Voltage (Voc)	[V]	40.09	40.15	40.20	40.25	40.30	40.35
Maximum Power Voltage	[V]	33.09	33.18	33.26	33.34	33.43	33.51
Short Circuit Current (Isc)	[A]	9.86	10.00	10.14	10.28	10.42	10.56
Maximum Power Current	[A]	9.37	9.49	9.62	9.75	9.87	10.00

\*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m<sup>2</sup>, AM 1.5  
\*Values without tolerance are typical numbers.

### Mechanical Data

Item	Specification
Dimensions	1675 mm (L) <sup>1</sup> x 992 mm (W) <sup>1</sup> x 35 mm (D) <sup>2</sup> / 65.9" (L) <sup>1</sup> x 39.1" (W) <sup>1</sup> x 1.38" (D) <sup>2</sup>
Weight	19 kg / 41.9 lbs
Solar Cell	120 half-cut monocrystalline 6" silicon cells
Front Glass	Anti-reflective tempered solar glass, 3.2mm thickness
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Cover	Composite film, white
Junction Box	IP 67 rated
Frame	Anodized aluminum frame, original or black
Packaging Configuration	30 pcs Per Pallet, 896 pcs per 40' HQ container

### Operating Conditions

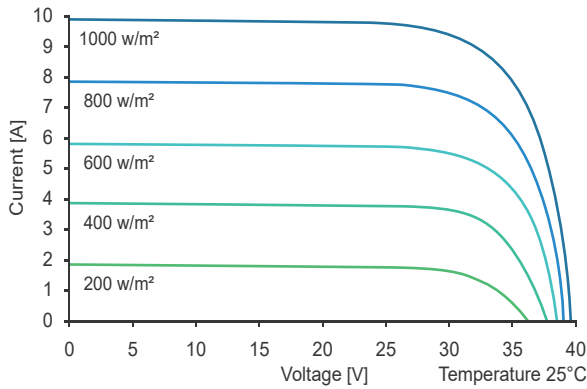
Item	Specification
Mechanical Load	5400 Pa acc. to IEC 61215
Maximum System Voltage	TUV 1000 VDC / UL 1500 VDC
Series Fuse Rating	18 A
Operating Temperature	-40 to 85 °C

### Temperature Characteristics

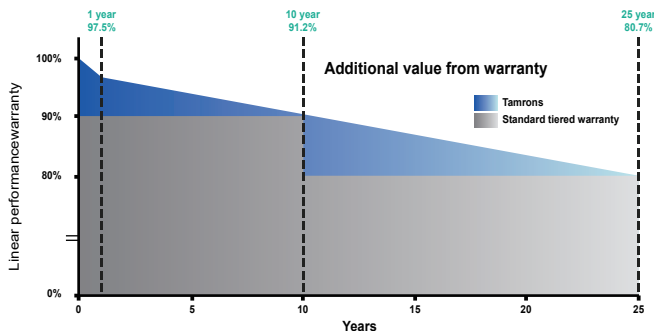
Item	Specification
Nominal Module Operating Temperature	44°C ± 2°C
Temperature Coefficient of Isc	0.06 % / °C
Temperature Coefficient of Voc	-0.28 % / °C
Temperature Coefficient of Pmax	-0.38 % / °C

\*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s.  
\*Reduction in efficiency from 1000W/m<sup>2</sup> to 200W/m<sup>2</sup> at 25°C: 3 ± 2%.

### Dependence on Irradiance



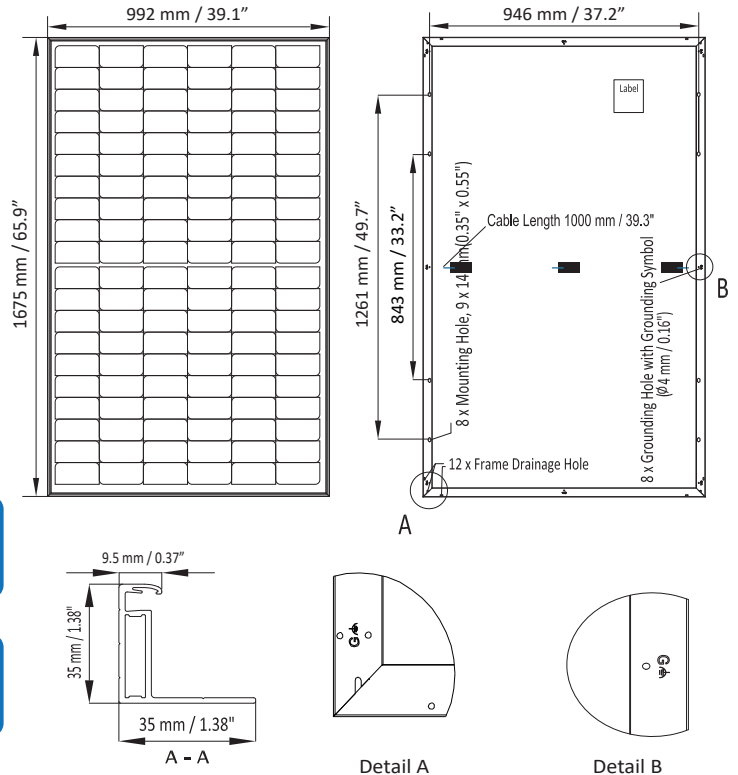
### Reliability with Warranty



Output warranty  
**25**  
Years

Product Guarantee  
**10**  
Years

### Engineering Drawing (mm)



\* The datasheet is for informational purposes only and subject to change without prior notice. Copyright © 2018 TAMRONS All rights reserved.



Positive Power Tolerance +0 ~ +4.99 w



Withstand Heavy Loading  
Front load 5400 Pa & Rear Load 2400 Pa



Excellent Low Light Performance  
3.5% relative eff. reduction at low-irradiance (200w/m<sup>2</sup>)



**Tamrons Active International Limited**  
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Production plants in China, Taiwan, Dubai and Thailand  
can meet the customer's needs and brand OEM

