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Solar Panel Guide Specification Data Sheet

Tamrons Active International Limited

TMP270~295

TMP285-6

Also available on the web at
EnergyPal.com/tamrons-active-international-limited-solar-panels/tmp285-6

Electrical Data

Model - STC		TMP270-6	TMP275-6	TMP280-6	TMP285-6	TMP290-6	TMP295-6
Maximum Rating Power (Pmax)	[W]	270	275	280	285	290	295
Module Efficiency	[%]	16.6	16.9	17.2	17.5	17.8	18.1
Open Circuit Voltage (Voc)	[V]	38.39	38.63	38.84	38.98	39.19	39.19
Maximum Power Voltage	[V]	30.85	30.98	31.42	31.64	31.84	31.84
Short Circuit Current (Isc)	[A]	9.19	9.28	9.34	9.41	9.47	9.47
Maximum Power Current	[A]	8.77	8.89	8.92	9.01	9.11	9.42

*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m², AM 1.5

*Values without tolerance are typical numbers.

Mechanical Data

Item	Specification
Dimensions	1640 mm (L) ¹ x 992 mm (W) ¹ x 35 mm (D) ² / 64.5" (L) ¹ x 39.1" (W) ¹ x 1.38" (D) ²
Weight	18 kg / 39.7 lbs
Solar Cell	60 multicrystalline 6" silicon cells (size: 156.75 × 156.75 mm)
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 (Certified by TUV Rheinland)
Maximum System Voltage	TUV/UL 1000 VDC
Series Fuse Rating	15 A
Operating Temperature	-40 to 85 °C

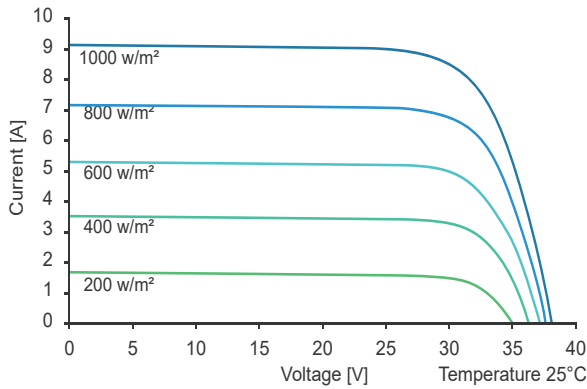
Temperature Characteristics

Item	Specification
Nominal Module Operating Temperature	44°C ± 2°C
Temperature Coefficient of Isc	0.07 % / °C
Temperature Coefficient of Voc	-0.30 % / °C
Temperature Coefficient of Pmax	-0.38 % / °C

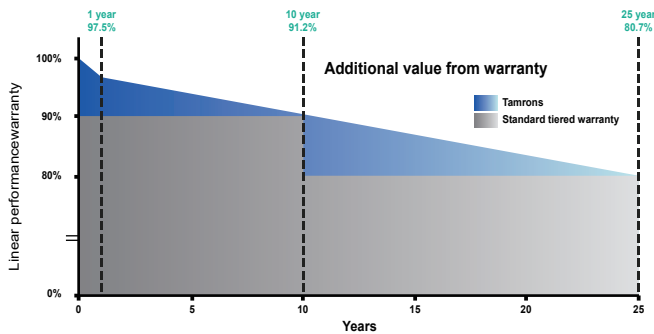
*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m², temperature 20°C, windspeed 1 m/s.

*Reduction in efficiency from 1000W/m² to 200W/m² at 25°C: 3 ± 2%.

Dependence on Irradiance

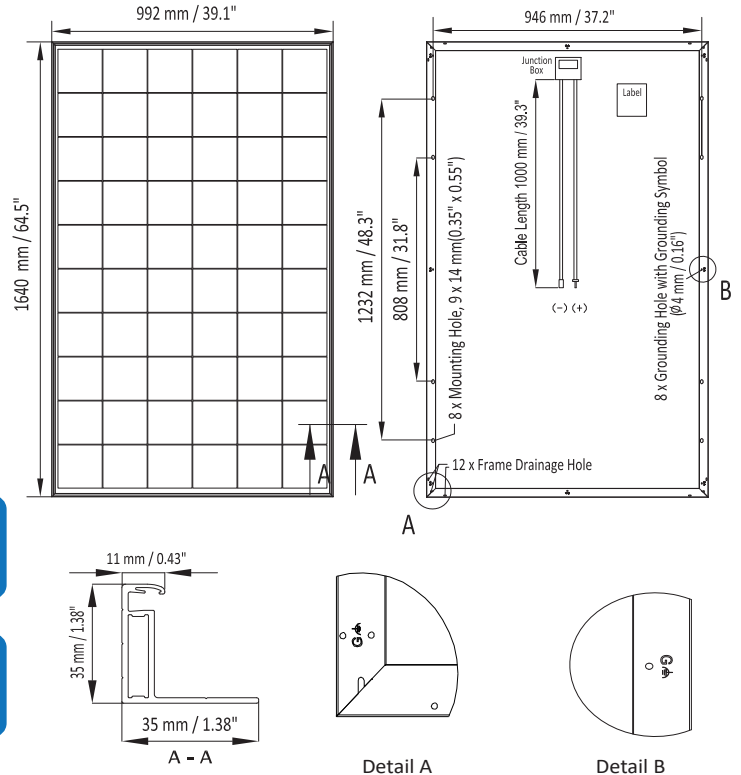


Reliability with Warranty



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Engineering Drawing (mm)



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/m²)



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can meet the customer's needs and brand OEM

