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Solar Panel Guide Specification Data Sheet

Tamrons Active International Limited

TMM365~390

TMM365-144

Also available on the web at
EnergyPal.com/tamrons-active-international-limited-solar-panels/tmm365-144

Electrical Data

| Model - STC | | TMM365-144 | TMM370-144 | TMM375-144 | TMM380-144 | TMM385-144 | TMM390-144 |
|-----------------------------|-----|------------|------------|------------|------------|------------|------------|
| Maximum Rating Power (Pmax) | [W] | 365 | 370 | 375 | 380 | 385 | 390 |
| Module Efficiency | [%] | 18.4 | 18.7 | 19.0 | 19.3 | 19.6 | 19.9 |
| Open Circuit Voltage (Voc) | [V] | 47.59 | 47.77 | 47.96 | 48.15 | 48.34 | 48.53 |
| Maximum Power Voltage | [V] | 38.58 | 39.02 | 39.37 | 39.71 | 40.05 | 40.39 |
| Short Circuit Current (Isc) | [A] | 10.02 | 10.05 | 10.08 | 10.10 | 10.13 | 10.16 |
| Maximum Power Current | [A] | 9.44 | 9.48 | 9.53 | 9.57 | 9.61 | 9.66 |

*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 | 2000 mm (L) ¹ x 992 mm (W) ¹ x 35 mm (D) / 78.74" (L) ¹ x 39.1" (W) ¹ x 1.38" (D) |
| Weight | 23 kg / 50.7 lbs |
| Solar Cell | 144 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, 704 pcs per 40' HQ container |

Operating Conditions

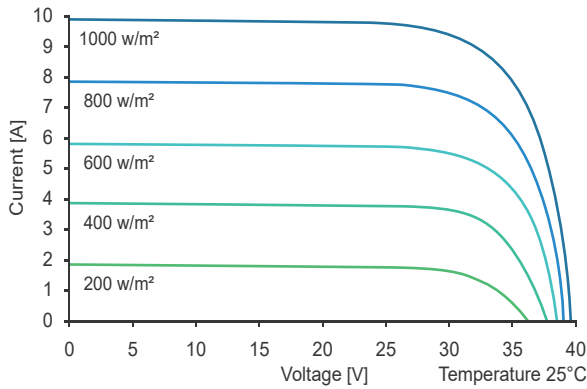
| Item | Specification |
|------------------------|----------------------------|
| Mechanical Load | 5400 Pa acc. to IEC 61215 |
| Maximum System Voltage | TUV 1000 VDC / UL 1500 VDC |
| Series Fuse Rating | 18 A |
| Operating Temperature | -40 to 85 °C |

Temperature Characteristics

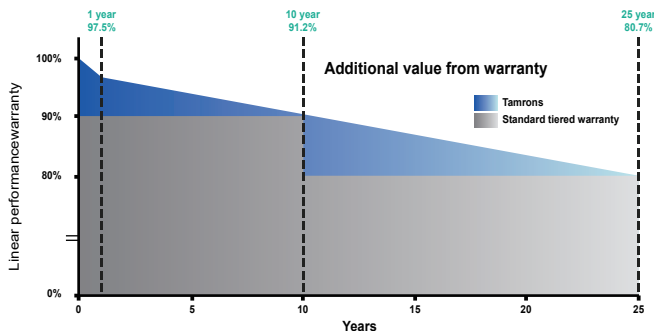
| Item | Specification |
|--------------------------------------|---------------|
| Nominal Module Operating Temperature | 44°C ± 2°C |
| Temperature Coefficient of Isc | 0.06 % / °C |
| Temperature Coefficient of Voc | -0.28 % / °C |
| Temperature Coefficient of Pmax | -0.38 % / °C |

*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/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



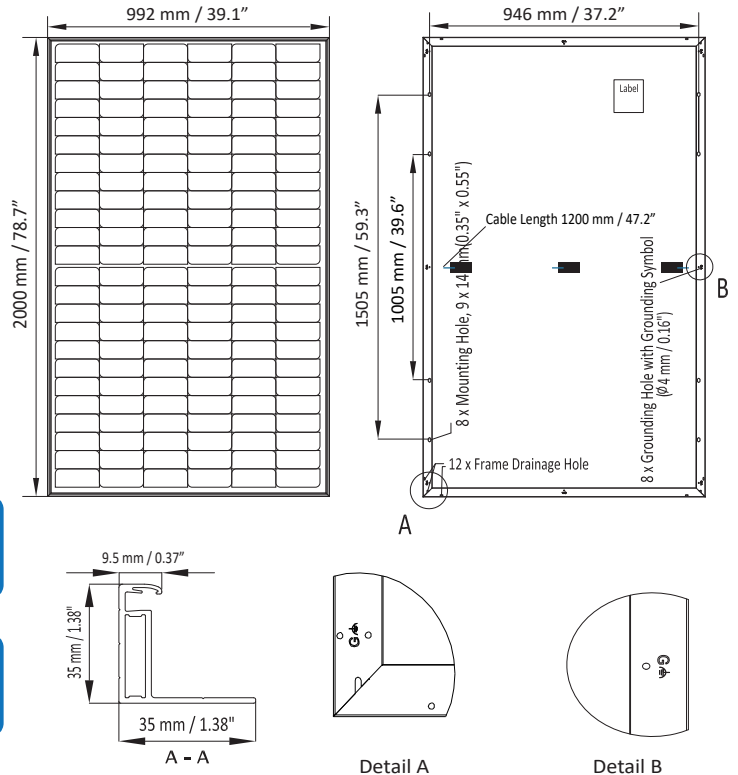
Reliability with Warranty



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/m²)



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 Production plants in China, Taiwan, Dubai and Thailand
 can meet the customer's needs and brand OEM

