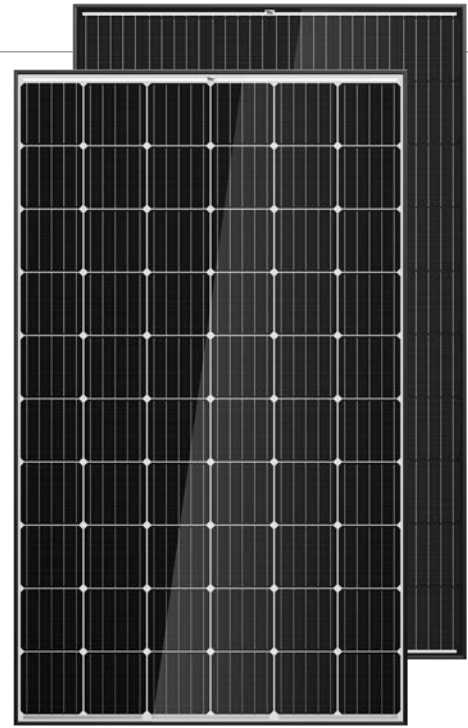


THE ALLMAX^M PLUS⁺

MODULE



60 CELL
MONOCRYSTALLINE MODULE

270-295W
POWER OUTPUT RANGE

18.0%
MAXIMUM EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

As a leading global manufacturer of next generation photovoltaic products, we believe close cooperation with our partners is critical to success. With local presence around the globe, Trina is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners as the backbone of our shared success in driving Smart Energy Together.

Trina Solar Limited
www.trinasolar.com



Maximize limited space with top-end efficiency

- Up to 180 W/m² power density
- Low thermal coefficients for greater energy production at high operating temperatures



Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- 100% EL double inspection

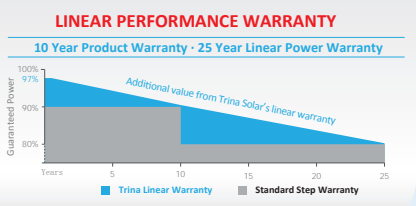


Certified to withstand challenging environmental conditions

- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm hail stones at 97 km/h

Comprehensive products and system certificates

- IEC 61215/ IEC 61730/ UL 1703/ IEC 61701/IEC 62716
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO 14064: Greenhouse Gases Emissions Verification
- OHSAS 18001: Occupation Health and Safety Management System



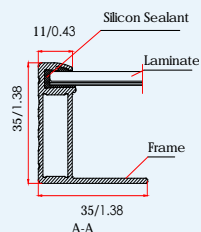
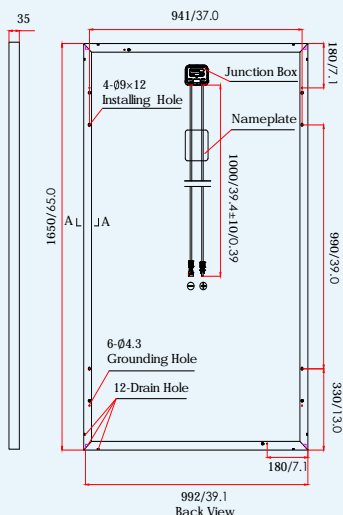
PRODUCTS

TSM-DD05A.08(II)
TSM-DD05A.05(II)

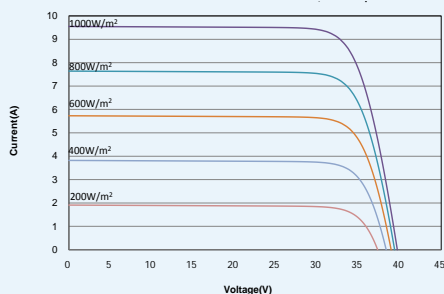
POWER RANGE

275-295W
270-290W

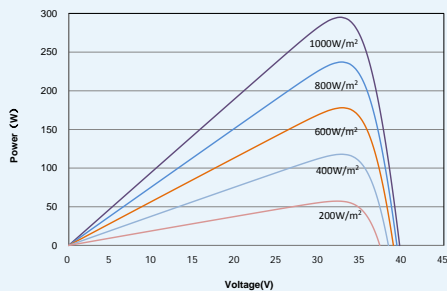
DIMENSIONS OF PV MODULE unit:mm/inches



I-V CURVES OF PV MODULE(295W)



P-V CURVES OF PV MODULE(295W)



ELECTRICAL DATA (STC)

| | | | | | | |
|---------------------------------------|------|------|------|------|------|------|
| Peak Power Watts- P_{MAX} (Wp)* | 270 | 275 | 280 | 285 | 290 | 295 |
| Power Output Tolerance- P_{MAX} (W) | 0~+5 | | | | | |
| Maximum Power Voltage- V_{MPP} (V) | 31.2 | 31.4 | 31.7 | 31.8 | 32.2 | 32.5 |
| Maximum Power Current- I_{MPP} (A) | 8.66 | 8.76 | 8.84 | 8.97 | 9.01 | 9.08 |
| Open Circuit Voltage- V_{OC} (V) | 38.4 | 38.7 | 39.0 | 39.3 | 39.5 | 39.7 |
| Short Circuit Current- I_{SC} (A) | 9.18 | 9.26 | 9.35 | 9.45 | 9.50 | 9.55 |
| Module Efficiency η_m (%) | 16.5 | 16.8 | 17.1 | 17.4 | 17.7 | 18.0 |

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5.
*Test tolerance: ±3%.

ELECTRICAL DATA (NOCT)

| | | | | | | |
|--------------------------------------|------|------|------|------|------|------|
| Maximum Power- P_{MAX} (Wp) | 201 | 205 | 209 | 212 | 216 | 220 |
| Maximum Power Voltage- V_{MPP} (V) | 28.9 | 29.2 | 29.4 | 29.6 | 29.9 | 30.2 |
| Maximum Power Current- I_{MPP} (A) | 6.96 | 7.02 | 7.10 | 7.17 | 7.23 | 7.28 |
| Open Circuit Voltage- V_{OC} (V) | 35.7 | 36.0 | 36.3 | 36.6 | 36.7 | 36.9 |
| Short Circuit Current- I_{SC} (A) | 7.41 | 7.48 | 7.55 | 7.63 | 7.67 | 7.71 |

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

| | |
|-------------------|--|
| Solar Cells | Monocrystalline 156 × 156 mm (6 inches) |
| Cell Orientation | 60 cells (6 × 10) |
| Module Dimensions | 1650 × 992 × 35 mm (65.0 x 39.1 x 1.38 inches) |
| Weight | 18.6 kg (41.0 lb) |
| Glass | 3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass |
| Backsheet | White (DD05A.08(II)); Black (DD05A.05(II)) |
| Frame | Black (DD05A.08(II), DD05A.05(II)) |
| J-Box | IP 67 or IP 68 rated |
| Cables | Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), 1000 mm (39.4 inches) |
| Connector | MC4 Compatible or Amphenol H4/UTX |
| Fire Type | Type 1 or Type 2 |

TEMPERATURE RATINGS

| | |
|---|-------------|
| Nominal Operating Cell Temperature (NOCT) | 44°C(± 2°C) |
| Temperature Coefficient of P_{MAX} | - 0.39%/°C |
| Temperature Coefficient of V_{OC} | - 0.29%/°C |
| Temperature Coefficient of I_{SC} | 0.05%/°C |

MAXIMUM RATINGS

| | |
|-------------------------|---------------------------------|
| Operational Temperature | -40~+85°C |
| Maximum System Voltage | 1000V DC (IEC) 1000V DC (UL) |
| Max Series Fuse Rating | 15A |

WARRANTY

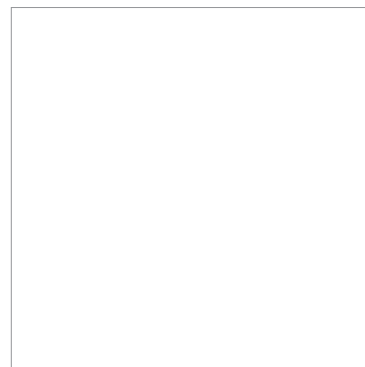
10 year Product Workmanship Warranty
25 year Linear Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 30 pieces

Modules per 40' container: 840 pieces



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