



TSM-DE06M.08 (II)

120 HALF-CUT
MONOCRYSTALLINE CELLS

325-340W
POWER OUTPUT RANGE

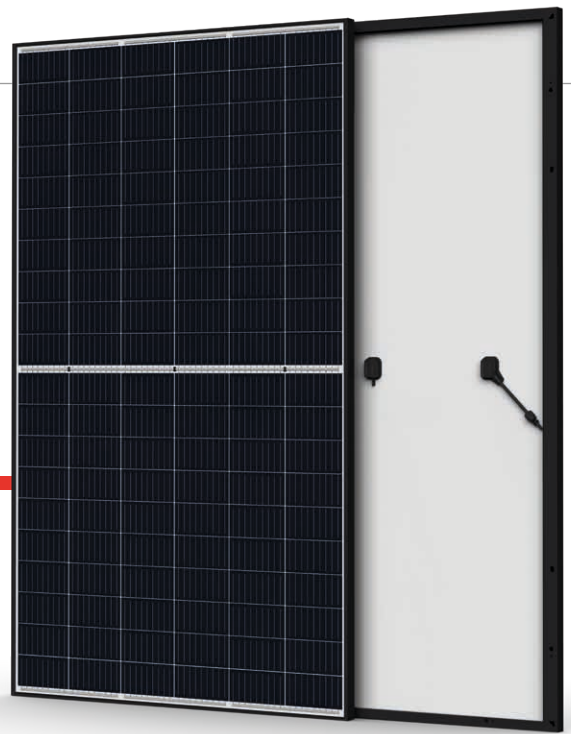
20.2%
MAXIMUM EFFICIENCY

0/+5W
POSITIVE POWER TOLERANCE

Founded in 1997, Trina Solar is the world's leading comprehensive solutions provider for solar energy. We believe close cooperation with our partners is critical to success. Trina Solar now distributes its PV products to over 60 countries all over the world. Trina Solar is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina Solar as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners.

Comprehensive Product And System Certificates

- IEC61215/IEC61730/UL1703
- IEC61701 Salt Mist Corrosion
- IEC62716 Ammonia Corrosion
- IEC60068 Blowing Sand
- ISO9001; ISO14001; OHSAS18001



High power output

- Multi busbar technology combined with mono PERC cells
- Reduced BOS costs with higher power bins and 1,500V system voltage



Great for residential rooftop application

- Maximize limited space with up to 202 W/m² power density
- Ultra-thin, virtually invisible busbars



Half-cut cell design brings higher efficiency

- Low thermal coefficients for higher energy yield at elevated operating temperatures
- Reduced interconnection losses



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
- PID resistant
- 2x 100% inline EL inspection

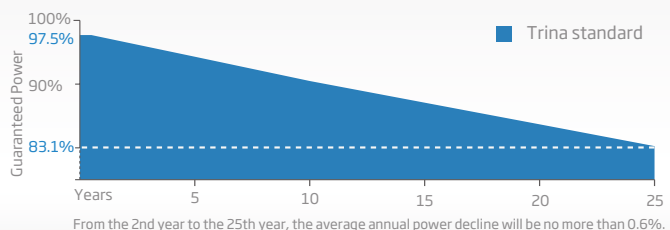


Certified to withstand challenging environmental conditions

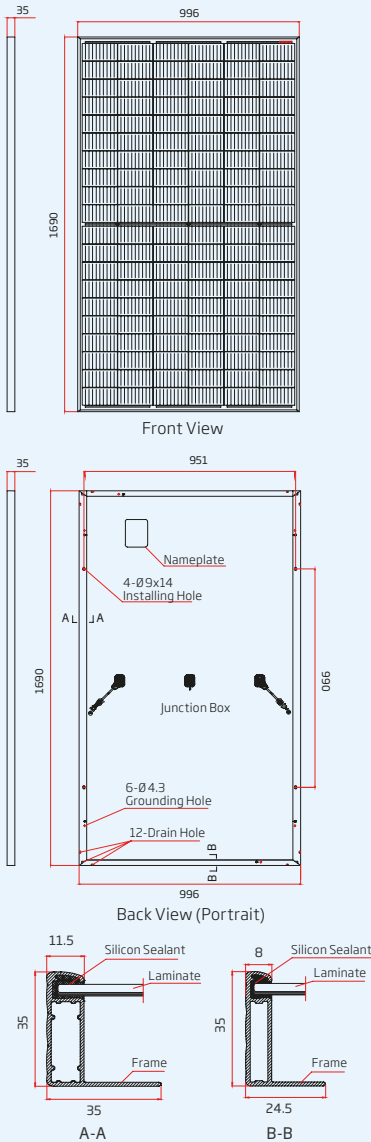
- Salt Mist Corrosion
- Ammonia Corrosion
- Blowing Sand

PERFORMANCE WARRANTY

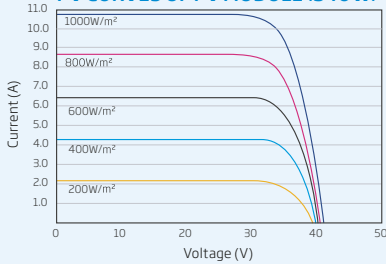
10 Year Product Warranty · 25 Year Power Warranty



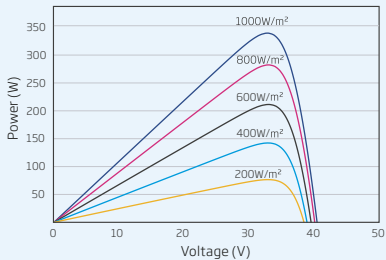
**DIMENSIONS OF PV MODULE
TSM-DE06M.08(II) (unit: mm)**



I-V CURVES OF PV MODULE (340 W)



P-V CURVES OF PV MODULE (340 W)



| ELECTRICAL DATA @ STC | TSM-325 DE06M.08(II) | TSM-330 DE06M.08(II) | TSM-335 DE06M.08(II) | TSM-340 DE06M.08(II) |
|---------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Peak Power Watts- P_{MAX} (Wp)* | 325 | 330 | 335 | 340 |
| Power Output Tolerance- P_{MAX} (W) | 0/+5 | 0/+5 | 0/+5 | 0/+5 |
| Maximum Power Voltage- U_{MPP} (V) | 33.6 | 33.8 | 34.0 | 34.2 |
| Maximum Power Current- I_{MPP} (A) | 9.67 | 9.76 | 9.85 | 9.94 |
| Open Circuit Voltage- U_{OC} (V) | 40.4 | 40.6 | 40.7 | 41.1 |
| Short Circuit Current- I_{SC} (A) | 10.30 | 10.4 | 10.5 | 10.6 |
| Module Efficiency η_m (%) | 19.3 | 19.6 | 19.9 | 20.2 |

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

| ELECTRICAL DATA @ NMOT | TSM-325 DE06M.08(II) | TSM-330 DE06M.08(II) | TSM-335 DE06M.08(II) | TSM-340 DE06M.08(II) |
|--------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Maximum Power- P_{MAX} (Wp) | 246 | 249 | 253 | 257 |
| Maximum Power Voltage- U_{MPP} (V) | 31.6 | 31.4 | 31.5 | 31.8 |
| Maximum Power Current- I_{MPP} (A) | 7.79 | 7.93 | 8.01 | 8.08 |
| Open Circuit Voltage- U_{OC} (V) | 38.1 | 38.2 | 38.3 | 38.7 |
| Short Circuit Current- I_{SC} (A) | 8.30 | 8.39 | 8.47 | 8.55 |

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

MECHANICAL DATA

| | |
|----------------------|---|
| Solar Cells | Monocrystalline |
| Cell Orientation | 120 cells (6 x 20) |
| Module Dimensions | 1690 x 996 x 35 mm |
| Weight | 18.0 kg |
| Glass | 3.2 mm, High Transmission, AR Coated Heat Strengthened Glass |
| Encapsulant Material | EVA |
| Backsheet | White |
| Frame | 35mm Black Anodized Aluminum Alloy |
| J-Box | IP 68 rated |
| Cables | Photovoltaic Cable 4.0mm ² , Portrait: N 140mm/P 285mm, Landscape: N 1200 mm /P 1200 mm |
| Connector | TS4 |

TEMPERATURE RATINGS

| | |
|---|------------|
| NMOT (Nominal Module Operating Temperature) | 41°C (±3K) |
| Temperature Coefficient of P_{MAX} | -0.36%/K |
| Temperature Coefficient of U_{OC} | -0.26%/K |
| Temperature Coefficient of I_{SC} | 0.04%/K |

MAXIMUM RATINGS

| | |
|-------------------------|-------------------------------|
| Operational Temperature | -40 to +85°C |
| Maximum System Voltage | 1500VDC (IEC) 1500VDC (UL) |
| Max Series Fuse Rating | 20A |
| Snow Load | 5400 Pa (3600 Pa*) |
| Wind Load | 2400 Pa (1600 Pa*) |

*design load with safety factor 1.5
(DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)

PACKAGING CONFIGURATION

| | |
|----------------------------|------------|
| Modules per box: | 30 pieces |
| Modules per 40' container: | 780 pieces |

WARRANTY

| |
|--------------------------------------|
| 10 year Product Workmanship Warranty |
| 25 year Performance Warranty |

(Please refer to product warranty for details)