

THE SPLITMAX

FRAMED 144-CELL MODULE (1500V)



144 CELL
MULTICRYSTALLINE MODULE

335-345W
POWER OUTPUT RANGE

17.4%
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 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.

Comprehensive Products And System Certificates

IEC61215/IEC61730/UL1703/IEC61701/IEC62716
 ISO 9001: Quality Management System
 ISO 14001: Environmental Management System
 ISO14064: Greenhouse gases Emissions Verification
 OHSAS 18001: Occupation Health and Safety Management System



Ideal for large scale installations

- Reduce BOS cost by connecting more modules in a string
- 1500V IEC certified



Half-Cell design brings higher efficiency

- New cell string layout and split J-box location to reduce the energy loss caused by shading between modules
- LRF integrated to gain more power, need avoid light sensitive case
- Low thermal coefficients for greater energy production at high operating temperatures
- Lower cell connection power lossing



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
- 100% EL double inspection

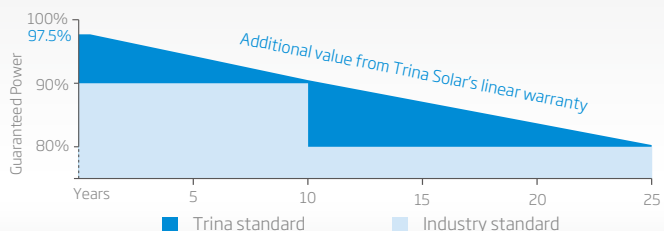


Certified to withstand the most challenging environmental conditions

- 2400 Pa negative load
- 5400 Pa positive load

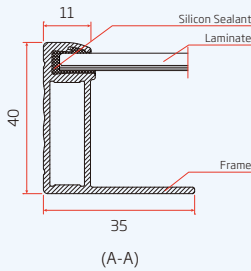
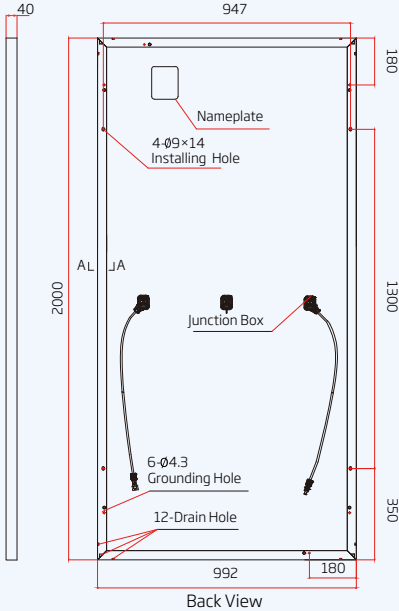
LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty · 25 Year Linear Power Warranty

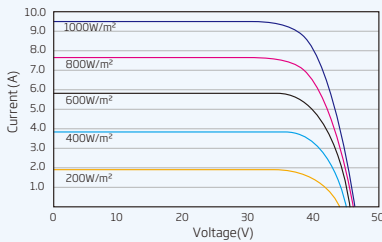


PRODUCTS | **POWER RANGE**
TSM-PE14H | 335-345W

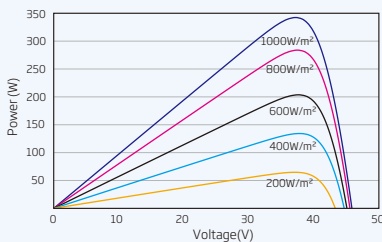
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(340W)



P-V CURVES OF PV MODULE(340W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)*	335	340	345
Power Output Tolerance- P_{MAX} (W)	0 ~ +5		
Maximum Power Voltage- V_{MPP} (V)	37.4	37.6	37.8
Maximum Power Current- I_{MPP} (A)	8.96	9.05	9.14
Open Circuit Voltage- V_{OC} (V)	45.9	46.1	46.3
Short Circuit Current- I_{SC} (A)	9.45	9.50	9.55
Module Efficiency η_m (%)	16.9	17.1	17.4

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

ELECTRICAL DATA (NOCT)

Maximum Power- P_{MAX} (Wp)	247	251	255
Maximum Power Voltage- V_{MPP} (V)	34.6	34.9	35.1
Maximum Power Current- I_{MPP} (A)	7.15	7.20	7.26
Open Circuit Voltage- V_{OC} (V)	42.5	42.7	42.8
Short Circuit Current- I_{SC} (A)	7.63	7.67	7.71

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

MECHANICAL DATA

Solar Cells	Multicrystalline 156.75 × 78.375 mm (6 × 3 inches)
Cell Orientation	144 cells (6 × 24)
Module Dimensions	2000 × 992 × 40 mm (78.7 × 39.1 × 1.57 inches)
Weight	23 kg (50.7 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
J-Box	IP 67 or IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), Portrait: N 140mm/P 285mm((5.5/11.2inches) Landscape: N 1400mm/P 1400 mm (55.1/55.1 inches)
Connector	UTX/MC4 EVO2/TS4*

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	44°C (±2°C)
Temperature Coefficient of P_{MAX}	-0.41%/°C
Temperature Coefficient of V_{OC}	-0.32%/°C
Temperature Coefficient of I_{SC}	0.05%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	15A

(DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)

WARRANTY

10 year Product Workmanship Warranty
25 year Linear Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 27 pieces
Modules per 40' container: 594 pieces