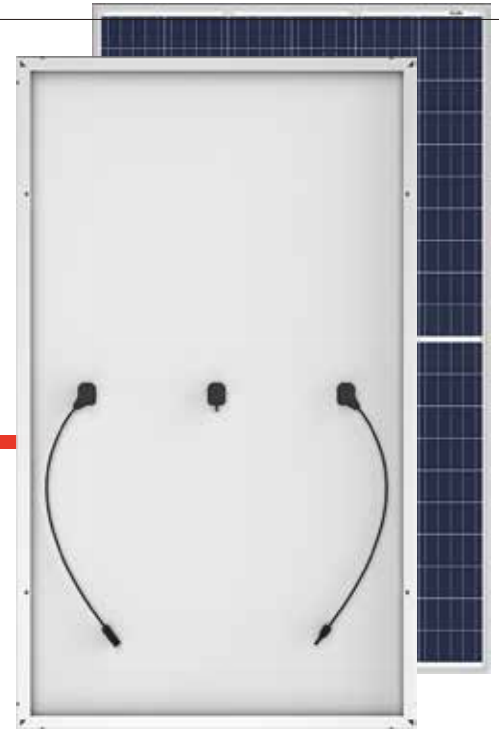


THE SPLITMAX

FRAMED 120-CELL MODULE (1500V)



120 CELL
MULTICRYSTALLINE MODULE

280-290W
POWER OUTPUT RANGE

17.5%
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

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



Half-cell design brings higher efficiency

- Half-Cell layout (120 multicrystalline)
- LRF integrated to gain more power, need avoid light sensitive case
- 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
- PID resistant
- 100% EL double inspection

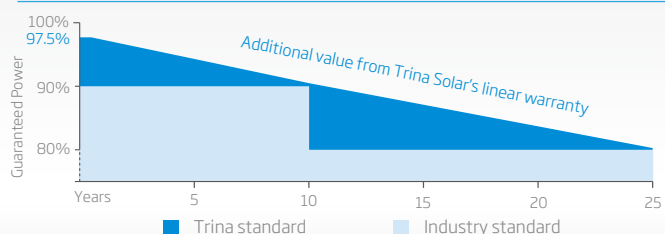


Certified to withstand the most challenging environmental conditions

- 2400 Pa negative load
- 5400 Pa positive load

LINEAR PERFORMANCE WARRANTY

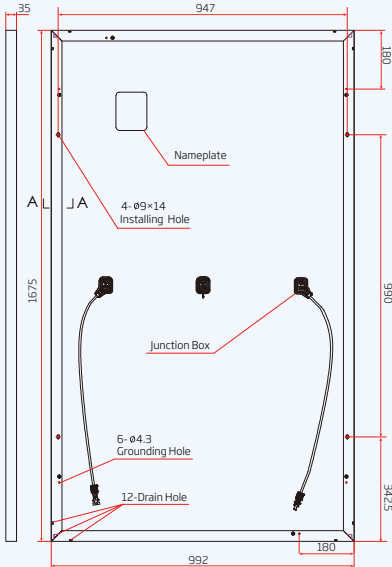
10 Year Product Warranty · 25 Year Linear Power Warranty



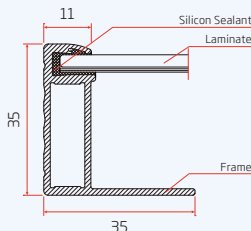
PRODUCTS POWER RANGE

TSM-PE05H | 280-290W

DIMENSIONS OF PV MODULE(mm)

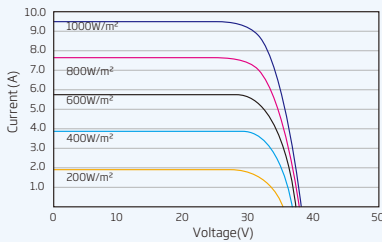


Back View

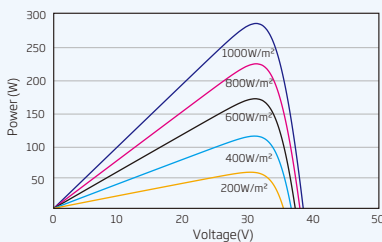


(A-A)

I-V CURVES OF PV MODULE(285W)



P-V CURVES OF PV MODULE(285W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)*	280	285	290
Power Output Tolerance- P_{MAX} (W)	0 ~ +5		
Maximum Power Voltage- V_{MPP} (V)	31.3	31.4	31.5
Maximum Power Current- I_{MPP} (A)	8.95	9.08	9.20
Open Circuit Voltage- V_{OC} (V)	38.7	38.8	39.0
Short Circuit Current- I_{SC} (A)	9.40	9.45	9.50
Module Efficiency η_m (%)	16.9	17.2	17.5

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

ELECTRICAL DATA (NOCT)

Maximum Power- P_{MAX} (Wp)	207	211	215
Maximum Power Voltage- V_{MPP} (V)	29.1	29.4	29.7
Maximum Power Current- I_{MPP} (A)	7.11	7.18	7.24
Open Circuit Voltage- V_{OC} (V)	35.8	35.9	36.1
Short Circuit Current- I_{SC} (A)	7.59	7.63	7.67

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	120 cells (6 × 20)
Module Dimensions	1675 × 992 × 35 mm (65.9 × 39.1 × 1.38 inches)
Weight	18.8 kg (40.8 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 1200 mm /P 1200 mm (47.2/47.2 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: 30 pieces
Modules per 40' container: 780 pieces