

THE SPLITMAX

FRAMED 60 LAYOUT MODULE



60 LAYOUT MULTICRYSTALLINE MODULE

275-290W POWER OUTPUT RANGE

17.5% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

PRODUCTS	COLOR OF FRAME	POWER RANGE
TSM-PE05H	Silver	275-290W
TSM-PE05H.08	Black	275-290W



Ideal for large scale installations

- Reduce BOS cost with higher power bin and 1500V system voltage



Half-cell design brings higher efficiency

- Low cell connection power losses due to half-cell layout (120 multicrystalline)
- LRF(Light Redirecting Film) integrated to gain more power, need avoid light sensitive case
- Low thermal coefficients for greater energy production at high operating temperature



Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF etc)
- Internal test requirement of Trina more stringent than certification authority
- PID resistant
- 100% EL double inspection



Certified to withstand the most challenging environmental conditions

- 2400 Pa negative load
- 5400 Pa positive load

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

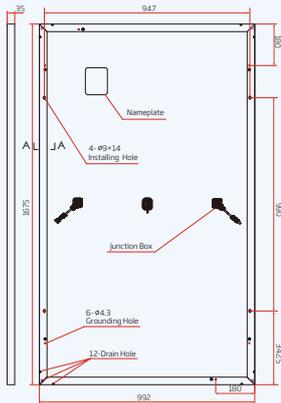


LINEAR PERFORMANCE WARRANTY

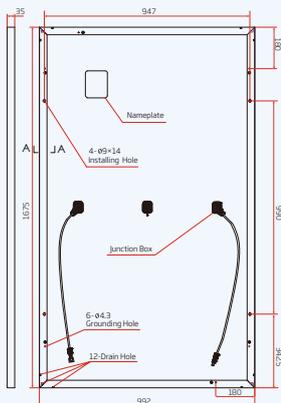
10 Year Product Warranty · 25 Year Linear Power Warranty



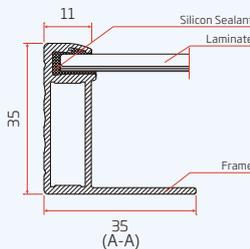
DIMENSIONS OF PV MODULE(mm)



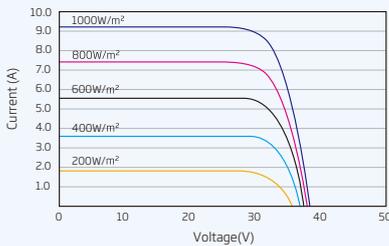
Back View(Portrait)



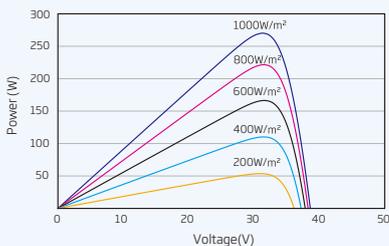
Back View(Landscape)



I-V CURVES OF PV MODULE(285W)



P-V CURVES OF PV MODULE(285W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)*	275	280	285	290
Power Output Tolerance- P_{MAX} (W)	0 ~ +5			
Maximum Power Voltage- V_{MPP} (V)	31.1	31.3	31.4	31.7
Maximum Power Current- I_{MPP} (A)	8.85	8.95	9.08	9.16
Open Circuit Voltage- V_{OC} (V)	38.5	38.7	38.8	39.0
Short Circuit Current- I_{SC} (A)	9.35	9.40	9.45	9.57
Module Efficiency η_m (%)	16.6	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)	206	209	213	217
Maximum Power Voltage- V_{MPP} (V)	29.0	29.3	29.6	29.7
Maximum Power Current- I_{MPP} (A)	7.08	7.13	7.20	7.29
Open Circuit Voltage- V_{OC} (V)	35.9	36.1	36.1	36.3
Short Circuit Current- I_{SC} (A)	7.55	7.59	7.63	7.73

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

MECHANICAL DATA

Solar Cells	Multicrystalline 156.75 × 78.375 mm (6.17 × 3.09 inches)
Cell Orientation	120 cells (6 × 20)
Module Dimensions	1675 × 992 × 35 mm (65.94 × 39.06 × 1.38 inches)
Weight	18.8 kg (41.4 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Encapsulant Material	EVA(White/Transparent)
Backsheet	White
Frame	35 mm (1.38 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), Portrait: N 140mm/P 285mm(5.51/11.22inches) Landscape: N 1200 mm /P 1200 mm (47.24/47.24 inches)
Connector	TS4/MC4-EV02

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	44°C (±2°C)
Temperature Coefficient of P_{MAX}	- 0.38%/°C
Temperature Coefficient of V_{OC}	- 0.31%/°C
Temperature Coefficient of I_{SC}	0.05%/°C

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

MAXIMUM RATINGS

Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1500V DC (IEC) 1500V DC (UL)
Max Series Fuse Rating	20A

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

