THE



FRAMED 72 LAYOUT MODULE

72 LAYOUT

MULTICRYSTALLINE MODULE

340-355W

POWER OUTPUT RANGE

17.5% **MAXIMUM EFFICIENCY**

0~+5W

POSITIVE POWER TOLERANCE

Founded in 1997, Trina Solar is the world's leading total solutions provider for solar energy. With local presence around the globe, Trina Solar is able to provide exceptional service to each customer in each market and deliver our innovative, reliable products with the backing of Trina as a strong, bankable brand. Trina Solar now distributes its PV products to over 100 countries all over the world We are committed to building strategic, mutually beneficial collaborations with installers, developers, distributors and other partners in driving smart energy together.

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



















PRODUCTS TSM-PE15H

POWER RANGE 340-355W





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(144 multicrystalline)
- 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



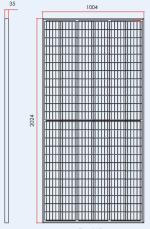
Certified to withstand the most challenging environmental conditions

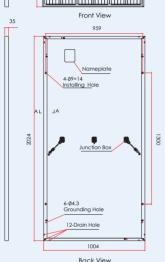
- 2400 Pa negative load
- 5400 Pa positive load
- * 2400/5400 is the measured load, and the safety factor is 1.5 times

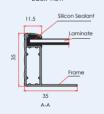




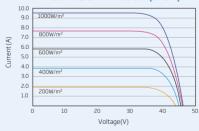
DIMENSIONS OF PV MODULE(mm)



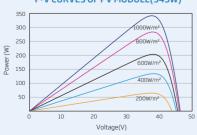




I-V CURVES OF PV MODULE(345W)



P-V CURVES OF PV MODULE(345W)



ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	340	345	350	355
Power Output Tolerance-PMAX (W)	0~+5			
Maximum Power Voltage-VMPP (V)	37.5	37.7	37.9	38.1
Maximum Power Current-IMPP (A)	9.06	9.15	9.23	9.32
Open Circuit Voltage-VOC (V)	46.2	46.4	46.7	47.0
Short Circuit Current-ISC (A)	9.53	9.62	9.71	9.81
Module Efficiency η m (%)	16.7	17.0	17.2	17.5

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

*Measuring tolerance: ±3%.

ELECTRICAL DATA (NMOT)

Maximum Power-PMAX (Wp)	257	261	265	269
Maximum Power Voltage-VMPP (V)	35.5	35.7	35.9	36.1
Maximum Power Current-IMPP (A)	7.24	7.31	7.37	7.45
Open Circuit Voltage-VOC (V)	43.5	43.7	44.0	44.2
Short Circuit Current-ISC (A)	7.69	7.76	7.83	7.91

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

MECHANICAL DATA

Solar Cells	Multicrystalline
Cell Orientation	144 cells (6 × 24)
Module Dimensions	2024 × 1004 × 35 mm (79.69 × 39.53 × 1.38 inches)
Weight	22.8kg (50.3lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	35 mm (1.38inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: N 140mm/P 285mm(5.51/11.22inches) Landscape: N 1400 mm /P 1400 mm (55.12/55.12 inches)
Connector	TS4

TEMPERATURE RATINGS

NMOT (Nominal Module OperatingTemperature)	41°C (±3°C)
Temperature Coefficient of PMAX	- 0.38%/°C
Temperature Coefficient of Voc	- 0.31%/°C
Temperature Coefficient of Isc	0.05%/°C

MAXIMUM RATINGS

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

(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: 660 pieces

天合光能股份有限公司



