TSM-PEG14.40



MULTICRYSTALLINE MODULE

320-340W

POWER OUTPUT RANGE

17.3%
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/IEC62716
ISO 9001: Quality Management System

ISO 14001: Environmental Management System ISO14064: Greenhouse Gas Emissions Verification OHSAS 18001: Occupational Health and Safety

Management System





















Improved durability

- Anti PIE
- Reduced soiling due to natural cleaning
- Increased module robustness to minimize micro-cracks

Corner Protection



Enhanced safety

- Fire class A certified by TUV Rheinland according to fire test IEC 61730-2 / MST 23
- Certified for fire type 13 (UL 1703)



Increased value

- 1,500 V system voltage reduces BOS costs by increased string length
- 30 year linear warranty
- 0.5% annual degradation



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
- All modules have to pass electroluminescence (EL) inspection
- PID resistant
- 1000 V UL/1500 V IEC certified



Certified to withstand challenging environmental conditions

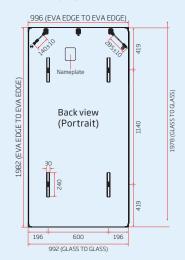
- Module coating resistant to sand, acid, and alkali
- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm hail stones at 97 km/h

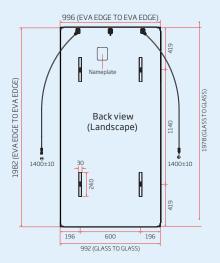
Trina Solar's DUOMAX Linear Performance Warranty



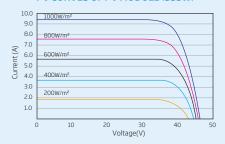


DIMENSIONS OF PV MODULE TSM-PEG14.40 (unit: mm)

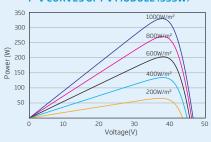




I-V CURVES OF PV MODULE (335W)



P-V CURVES OF PV MODULE (335W)



ELECTRICAL DATA @ STC	TSM-320 PEG14.40	TSM-325 PEG14.40	TSM-330 PEG14.40	TSM-335 PEG14.40	TSM-340 PEG14.40
Peak Power Watts-PMAX (Wp)*	320	325	330	335	340
Power Output Tolerance-PMAX (W)	0/+5	0/+5	0/+5	0/+5	0/+5
Maximum Power Voltage-V _{MPP} (V)	37.2	37.4	37.6	37,8	38.0
Maximum Power Current-I _{MPP} (A)	8.60	8.69	8.78	8,87	8.95
Open Circuit Voltage-Voc (V)	45.4	45.6	45.8	46,0	46.2
Short Circuit Current-Isc (A)	9.23	9.27	9.31	9,35	9.39
Module Efficiency η ^m (%)	16.3	16.6	16.8	17,1	17.3

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

ELECTRICAL DATA @ NOCT	TSM-320 PEG14.40	TSM-325 PEG14.40	TSM-330 PEG14.40	TSM-335 PEG14.40	TSM-340 PEG14.40
Maximum Power-P _{MAX} (Wp)	237	241	245	249	252
Maximum Power Voltage-UMPP (V)	34.4	34.6	34.8	35.0	35.2
Maximum Power Current-Impp (A)	6.90	6.97	7.04	7.11	7.18
Open Circuit Voltage-Uoc (V)	42.0	42.2	42.4	42.6	42.8
Short Circuit Current-Isc (A)	7.45	7.48	7.52	7.55	7.58

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

MECHANICAL DATA

Solar Cells	Multicrystalline 156.75 × 156.75 mm
Cell Orientation	72 cells (6 x 12)
Module Dimensions	1978 × 992 × 6 mm 1982 × 996 × 6 mm with edge banding 1984 × 998 × 7.6 mm with corner protector (Std)*
Weight	28.0 kg
Front Glass	2.5 mm, high transparency, AR coated and heat strengthened glass
EVA	White
Back Glass	2.5 mm, heat strengthened glass
Frame	Frameless
J-Box	IP 67 rated or IP 68 rated
Cables	Photovoltaic Technology Cable 4.0 mm ² Portrait: 140/285 mm, Landscape: 1400/1400 mm
Connector	MC4 EVO2/UTX/TS4

^{*} Do not combine with slide-in solutions.

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C (±2K)
Temperature Coefficient of PMAX	- 0.41%/K
Temperature Coefficient of Voc	- 0.32%/K
Temperature Coefficient of Isc	0.05%/K

WARRANTY

10 year Product Workmanship Warranty 30 year Linear Performance Warranty (Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box:	33 pieces
Modules per 40' container:	726 pieces

MAXIMUM RATINGS

Operational Temperature	-40 to +85°C	
Maximum System Voltage	1500 V DC (IEC) 1000 V DC (UL)	
Max Series Fuse Rating**	15 A	
Mechanical Load*	5400 Pa	
Wind Load*	2400 Pa	

^{*} Max. mechanical loading values depend on the mounting method applied and only clamps approved by Trina Solar should be used.

MORE OPTIONS

Compact AR (Antireflective) coating POE (Polyolefin Elastomer) foil

TSM_EN_2017_B



^{**} DO NOT connect fuse in combiner box with two or more strings in parallel connection.