



TSM-PDG5

THE MOST DURABLE MODULE

60 CELL
MULTICRYSTALLINE MODULE

240-255W
POWER OUTPUT RANGE

15.2%
MAXIMUM EFFICIENCY

0~+3%
POWER OUTPUT GUARANTEE

As a leading global manufacturer of next generation photovoltaic products, we believe close cooperation with our partners is critical to success. With local presence around the globe, 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 as the backbone of our shared success in driving Smart Energy Together.

Trina Solar Limited
www.trinasolar.com



More reliable frameless design

- Anti-PID and free of snail trails
- Reduced soiling due to natural cleaning
- Cleaner aesthetics



Enhanced safety

- Fire class A certified



More durable

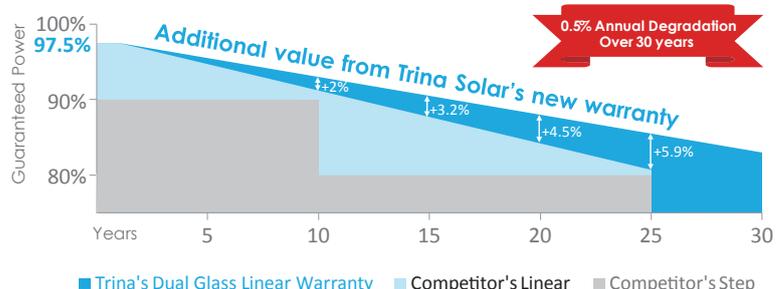
- Robust structure protects cells during mechanical loading and shocks to minimize micro-cracks



Certified to withstand the most challenging environmental solutions

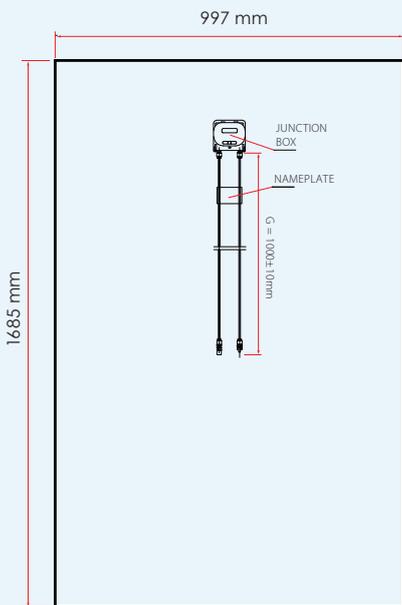
- Module coating resistant to sand, acid, and alkali
- 3600 Pa wind load
- 5400 Pa snow load
- 25 mm hail stones at 82 km/hr

Trina Solar's new linear performance warranty

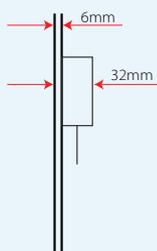


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DIMENSIONS OF PV MODULE TSM-PDG5

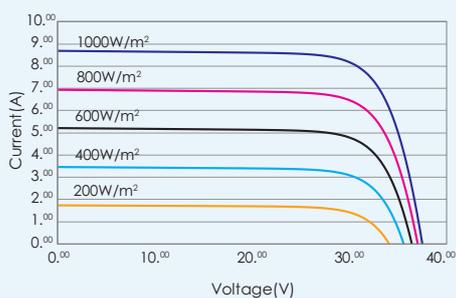


Back View



Side View

I-V CURVES OF PV MODULE TSM-245 PDG5



CERTIFICATION



ELECTRICAL DATA @ STC	TSM-240 PDG5	TSM-245 PDG5	TSM-250 PDG5	TSM-255 PDG5
Peak Power Watts- P_{MAX} (Wp)	240	245	250	255
Power Output Tolerance- P_{MAX} (%)	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage- V_{MPP} (V)	29.9	30.1	30.3	30.4
Maximum Power Current- I_{MPP} (A)	8.04	8.14	8.26	8.39
Open Circuit Voltage- V_{OC} (V)	37.3	37.4	37.5	37.6
Short Circuit Current- I_{sc} (A)	8.50	8.60	8.70	8.80
Module Efficiency η_m (%)	14.3	14.6	14.9	15.2

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
Average efficiency reduction of 4.5% at 200 W/m² according to EN 60904-1.
Power measurement tolerance: ±3%

ELECTRICAL DATA @ NOCT	TSM-240 PDG5	TSM-245 PDG5	TSM-250 PDG5	TSM-255 PDG5
Maximum Power- P_{MAX} (Wp)	174	178	181	185
Maximum Power Voltage- V_{MP} (V)	26.9	27.0	27.0	27.1
Maximum Power Current- I_{MPP} (A)	6.47	6.60	6.71	6.81
Open Circuit Voltage (V)- V_{OC} (V)	34.1	34.2	34.2	34.3
Short Circuit Current (A)- I_{sc} (A)	6.93	7.02	7.12	7.22

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

MECHANICAL DATA

Solar cells	Multicrystalline 156 × 156 mm
Cell orientation	60 cells (6 × 10)
Module dimensions	1685 × 997 × 6 mm (1685 × 997 × 32 mm with junction box)
Weight	24.0 kg
Front Glass	High Transmission, Low Iron, Heat Strengthened Glass, 2.5 mm
EVA	White
Back Glass	Heat Strengthened Glass, 2.5 mm
Frame	Frameless
J-Box	IP 65 rated
Cables	Photovoltaic Technology cable 4.0 mm ² , 1000 mm
Connector	MC4-EVO 3

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of P_{MAX}	-0.43%/°C
Temperature Coefficient of V_{OC}	-0.32%/°C
Temperature Coefficient of I_{sc}	0.047%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1000UDV(IEC) 1000VDC(UL)
Max Series Fuse Rating	15A

WARRANTY

10 year Product Workmanship Warranty

30 year Linear Power Warranty

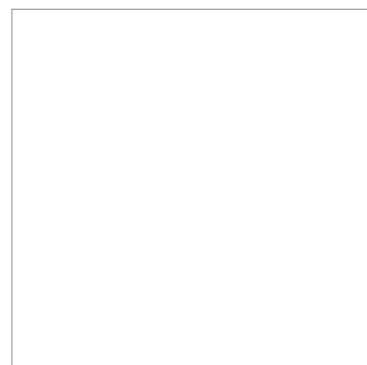
(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 30 pieces

Modules per 40' container: 780 pieces

For best results, install with the Trina clamp for dual glass modules



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