

TSM-PDG5

THE MOST DURABLE MODULE

15.1%
MAX EFFICIENCY

255W
MAX POWER OUTPUT

10 YEAR
PRODUCT WARRANTY

25 YEAR
LINEAR POWER WARRANTY

Founded in 1997, Trina Solar (NYSE: TSL) has established itself as a leader in the solar community with its vertically integrated business model. Our modules and system solutions provide clean solar power in on-grid and off-grid residential, commercial, industrial and utility-scale systems.

With more than 22 offices worldwide, Trina Solar has partnerships with leading installers, distributors, utilities and developers in all major PV markets. Trina Solar is committed to driving smarter energy choices.

Trina Solar Limited
www.trinasolar.com

Trinasolar
Smart Energy Together



More Reliable Performance

- 50% lower Pmax degradation due to potential induced degradation (PID) resistance
- Module coating resistant to sand, acid, and alkali



More Durable

- Robust double-glass structure protects cells during mechanical loading to minimize micro-cracks



Faster Installation

- Frameless modules do not require grounding, leading to lower component and labor costs



Sleek, Clean Appearance

- Frameless design for more a seamless array appearance

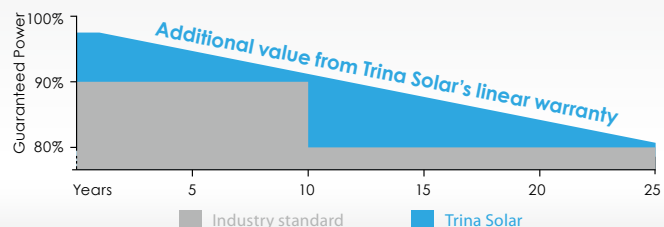


Greater Inventory Flexibility

- Certified to 1000V UL and IEC

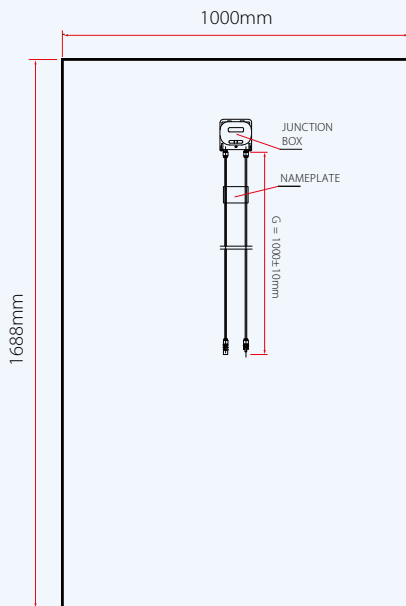
LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty

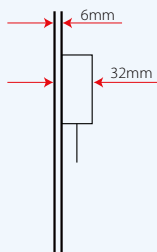


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DIMENSIONS OF PV MODULE TSM-PDG5

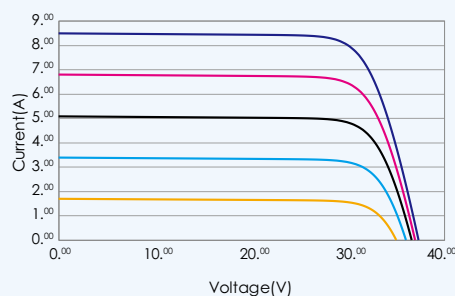


Back View



Side View

I-V CURVES OF PV MODULE TSM-245 PDG5



Average efficiency reduction of 4.5% at 200W/m² according to EN 60904-1.

CERTIFICATION (on going)




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 _{MP} (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	15.1

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C). 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 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s. Power measurement tolerance: ±3%

MECHANICAL DATA

Solar cells	Multicrystalline 156 × 156mm (6 inches)
Cell orientation	60 cells (6 × 10)
Module dimensions	1688 × 1000 × 32mm (66.46 × 39.37 × 1.26 inches)
Weight	24.0kg (52.9 lb)
Front Glass	High Transmission, Low Iron, Heat Strengthened Glass, 2.5mm (0.098inches)
Back Glass	Heat Strengthened Glass, 2.5mm (0.098inches)
Frame	Frameless
J-Box	IP 65 rated
Cables	Photovoltaic Technology cable 4.0mm ² (0.006 inches ²), 1000mm (39.4 inches)
Connector	Original MC4PLUS 

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

WARRANTY

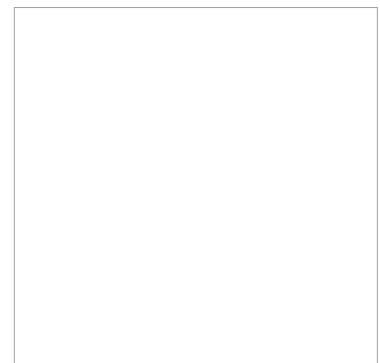
10 year Product Workmanship Warranty
25 year Linear Power Warranty
(Please refer to product warranty for details)

MAXIMUM RATINGS

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

PACKAGING CONFIGURATION

Modules per box:	30 pieces
Modules per 40' container:	780 pieces



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