



THE DUOMAX MODULE

TSM-PEG5

60 CELL
MULTICRYSTALLINE MODULE

255–265W
POWER OUTPUT RANGE

16.1%
MAXIMUM EFFICIENCY

0/+5W
POSITIVE POWER TOLERANCE

TRINA SOLAR: A STRONG AND RELIABLE PARTNER

As a leading global manufacturer of next generation photovoltaic products, Trina Solar is committed to building mutually beneficial alliances with installers, developers, distributors and technological partners as the backbone of our shared goal to drive Smart Energy Together. Thanks to an extensive sales and service network with local sales and service teams throughout Europe, Trina Solar is perfectly positioned to support your needs. With Trina Solar as your strong, bankable partner you can rest assured knowing that you've made the right choice.

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Improved durability

- Anti PID
- Reduced soiling due to natural cleaning
- Cleaner aesthetics



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

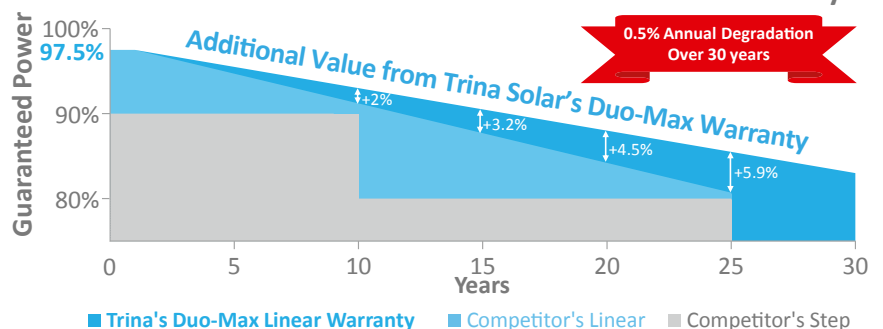
- 1,500 V system voltage reduces BOS costs by increased string length
- 30 year linear warranty
- 0.5% annual degradation



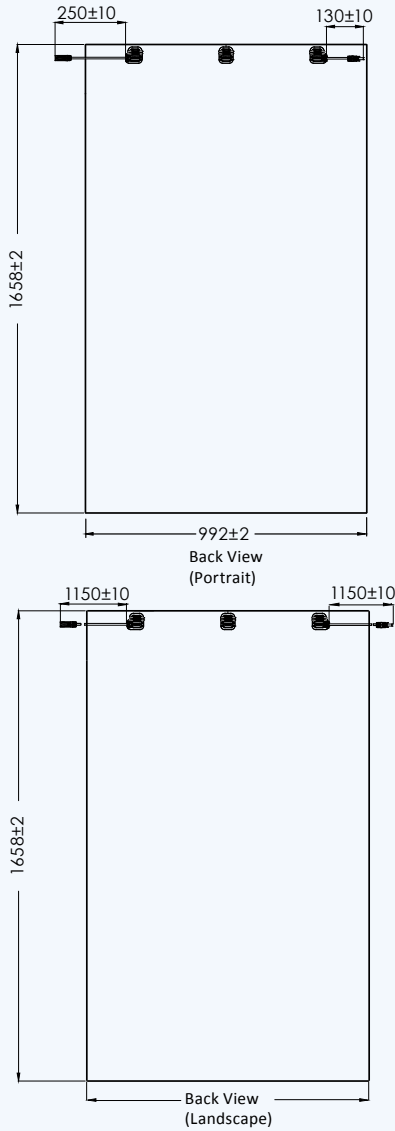
Certified to withstand the most challenging environmental conditions

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

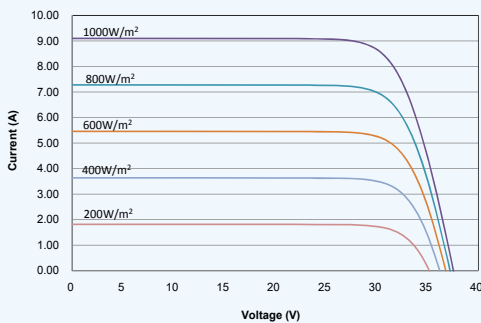
Trina Solar's Duo-Max Linear Performance Warranty



DIMENSIONS OF PV MODULE (unit:mm)



I-V CURVES OF PV MODULE (260W)



CERTIFICATION



ELECTRICAL DATA @ STC	TSM-255 PEG5	TSM-260 PEG5	TSM-265 PEG5
Peak Power Watts- P_{MAX} (Wp)	255	260	265
Power Output Tolerance- P_{MAX} (W)	0/+5	0/+5	0/+5
Maximum Power Voltage- V_{MPP} (V)	30.3	30.5	30.8
Maximum Power Current- I_{MPP} (A)	8.42	8.52	8.60
Open Circuit Voltage- V_{OC} (V)	37.5	37.6	37.6
Short Circuit Current- I_{SC} (A)	9.01	9.10	9.20
Module Efficiency η_m (%)	15.5	15.8	16.1

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.

ELECTRICAL DATA @ NOCT	TSM-255 PEG5	TSM-260 PEG5	TSM-265 PEG5
Maximum Power- P_{MAX} (Wp)	190	193	197
Maximum Power Voltage- V_{MPP} (V)	27.7	27.9	28.1
Maximum Power Current- I_{MPP} (A)	6.84	6.93	7.02
Open Circuit Voltage (V)- V_{OC} (V)	34.8	34.8	34.9
Short Circuit Current (A)- I_{SC} (A)	7.28	7.35	7.43

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	1658 × 992 × 6 mm (1658 x 992 x 25 mm with junction box)
Weight	23.5 kg
Front Glass	2.5 mm, High Transmission, AR Coated and Heat Strengthened Glass
EVA	White
Back Glass	Heat Strengthened Glass, 2.5 mm
Frame	Frameless
J-Box	IP 65 or IP 67 rated
Cables	Photovoltaic Technology cable 4.0 mm ² , Portrait: 250/130 mm, Landscape: 1150/1150 mm.
Connector	MC4-EVO3 Compatible

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C (±2K)
Temperature Coefficient of P_{MAX}	- 0.41% /K
Temperature Coefficient of V_{OC}	- 0.32% /K
Temperature Coefficient of I_{SC}	0.05% /K

MAXIMUM RATINGS

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

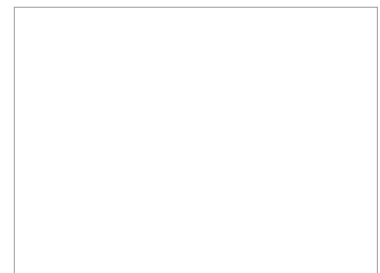
WARRANTY

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

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



TSM_EN_2015_C