

THE DUAL GLASS MODULE



60 CELL
MULTICRYSTALLINE MODULE

245-260W
POWER OUTPUT RANGE

15.5%
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

- PID resistant and free of snail trails
- Reduced soiling
- Modern aesthetics



Enhanced safety

- Fire class A certified



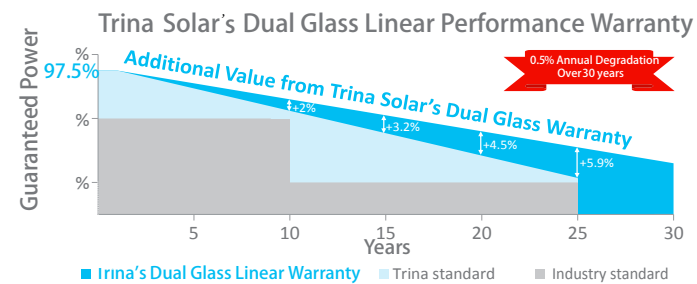
More durable

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



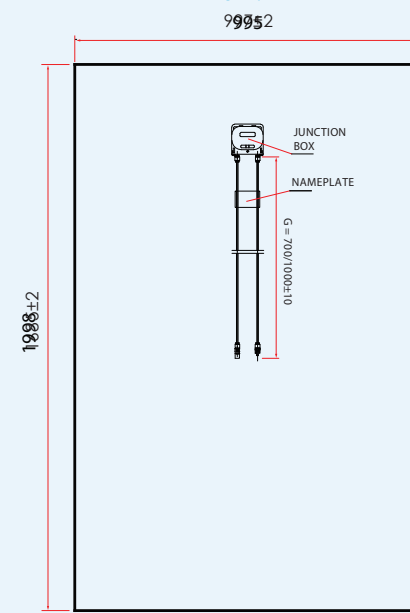
Certified to withstand the most challenging environmental conditions

- Module coating resistant to sand, acid, and alkali
- 3600 Pa wind load* • 5400 Pa snow load*
- 35 mm hail stones at 97 km/h

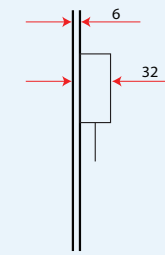


THE DUAL GLASS MODULE TSM-PDG5

DIMENSIONS OF PV MODULE

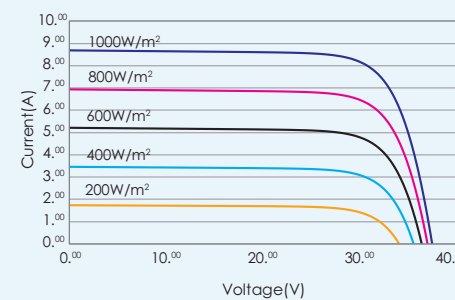


Back View



Side View

I-V CURVES OF PV MODULE(245W)



CERTIFICATION



ELECTRICAL DATA (STC)

Parameter	245	250	255	260
Peak Power Watts-P _{MAX} (Wp)	245	250	255	260
Power Output Tolerance-P _{MAX} (%)	0 ~ +3			
Maximum Power Voltage-V _{MPP} (V)	29.7	30.0	30.3	30.5
Maximum Power Current-I _{MPP} (A)	8.25	8.34	8.42	8.52
Open Circuit Voltage-V _{OC} (V)	37.4	37.5	37.5	37.6
Short Circuit Current-I _{SC} (A)	8.87	8.97	9.01	9.10
Module Efficiency η _m (%)	14.6	14.9	15.2	15.5

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

ELECTRICAL DATA (NOCT)

Parameter	182	186	190	193
Maximum Power-P _{MAX} (Wp)	182	186	190	193
Maximum Power Voltage-V _{MPP} (V)	27.3	27.5	27.7	27.9
Maximum Power Current-I _{MPP} (A)	6.68	6.78	6.84	6.93
Open Circuit Voltage-V _{OC} (V)	34.7	34.8	34.8	34.8
Short Circuit Current-I _{SC} (A)	7.16	7.24	7.28	7.35

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

MECHANICAL DATA

Solar cells	Multicrystalline 156 × 156 mm (6 inches)
Cell orientation	60 cells (6 × 10)
Module dimensions	1685 × 997 × 6 mm (1685 x 997 x 32 mm with junction box)
Weight	24.0 kg (52.9lb)
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 4.0mm ² (0.006 inches ²), 700 mm (27.56 inches)/1000mm (39.37 inches)
Connector	MC4 or MC4 Compatible

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C (±2°C)
Temperature Coefficient of P _{MAX}	-0.41%/°C
Temperature Coefficient of V _{OC}	-0.32%/°C
Temperature Coefficient of I _{SC}	0.05%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1000V DC (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

*The mechanical loading is dependent upon the mounting method used and only approved clamps should be used. For best results, install with the Trina clamp for dual glass modules