

TSM-PC05

The Universal Solution



Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



Guaranteed power output (0~+3%)



High performance under low light conditions (Cloudy days, mornings and evenings)



Independently certified by international certification bodies*



Manufactured according to International Quality and Environment Management System (ISO9001, ISO14001)



Currently Trina Solar's most popular panel. Versatile and adaptable, with power output ranging from 225 to 245Wp, the TSM-PC05 is perfect for large-scale installations, particularly ground-mounted and commercial rooftop systems. Using reliable and carefully selected components that are tested at the Trina Solar Center of Excellence, this panel comes with a 25-year performance guarantee of 80% power production.



linear performance warranty

10 year product warranty
25 year linear power warranty



Trina Solar Limited
Trina Solar (Schweiz) AG
Leutschenbachstr. 45,
8050 Zurich, Switzerland

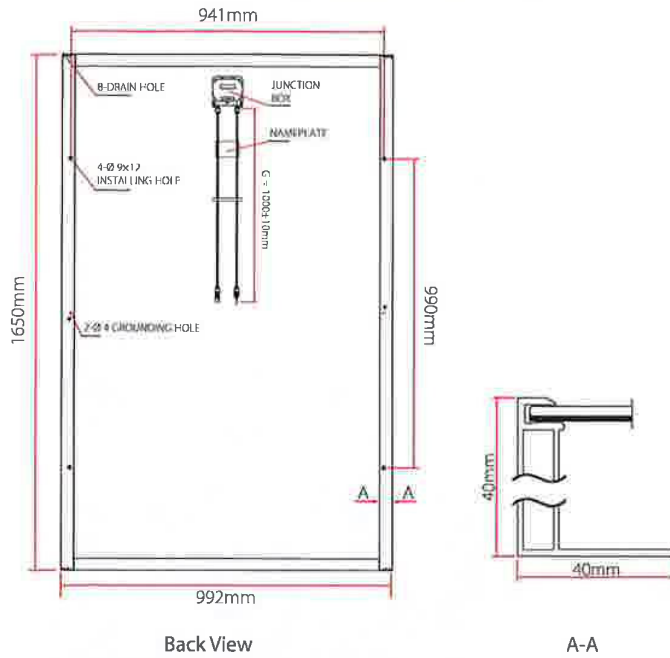
T +41 43 299 68 00
F +41 43 299 68 10
E europe@trinasolar.com

Founded in 1997, Trina Solar is a vertically integrated PV manufacturer, producing everything from ingots to modules, using both mono and multicrystalline technologies. By the end of 2011, the company will have a nameplate module capacity of 1.9GW. Trina Solar's wide range of products are used in residential, commercial, industrial and public utility applications throughout the world.

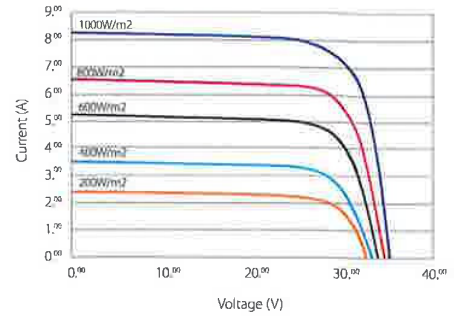
Only by matching an efficient cost-structure with proven performance will we, as an industry, achieve grid parity. And at Trina Solar, we have both.

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Dimensions of PV module TSM-PC05



I-V Curves of PV module TSM-230PC05



Efficiency	up to 15.3%
Wattage	up to 250W
Years warranty	25

Certification



Electrical Data @ STC	TSM-230PC05	TSM-235PC05	TSM-240PC05	TSM-245PC05	TSM-250PC05
Peak Power Watts- P_{MAX} (WP)	230	235	240	245	250
Power Output Tolerance- P_{MAX} (%)	0/+3	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage- V_{MAX} (V)	29.8	30.1	30.4	30.7	31.0
Maximum Power Current- I_{MPP} (A)	7.72	7.81	7.89	7.98	8.06
Open Circuit Voltage- V_{OC} (V)	37.0	37.1	37.2	37.3	37.4
Short Circuit Current- I_{SC} (A)	8.26	8.31	8.37	8.47	8.55
Module Efficiency η_m (%)	14.1	14.4	14.7	15.0	15.3

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Mechanical Data

Solar cells	Multicrystalline 156 x 156mm (6 inches)
Cells orientation	60 cells (6x10)
Module dimension	1650 x 992 x 40mm (64.95 x 39.05 x 1.57inches)
Weight	19.5kg (43.0lb)
Glass	High transparency solar glass 3.2mm (0.13inches)
Frame	Anodized aluminium alloy
J-Box	IP 65 rated
Cables/Connector	Photovoltaic Technology cable 4.0mm ² (0.006inches ²), 1000mm (39.4inches), MC4

Temperature Ratings

Nominal Operating Cell Temperature (NOCT)	46°C (±2°C)
Temperature Coefficient of P_{MPP}	-0.45%/°C
Temperature Coefficient of V_{OC}	-0.35%/°C
Temperature Coefficient of I_{SC}	0.05%/°C

Maximum Ratings

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

Warranty

10 years workmanship warranty
 25 years linear performance warranty
 (Please refer to Trina Solar product warranty for details)

Packaging Configuration

Modules per box	25 pcs
Modules per 40' container	650pcs