TSM-PC05.05

THE AESTHETIC MODULE



MULTICRYSTALLINE MODULE

230-245W

POWER OUTPUT RANGE

15.0%
MAXIMUM EFFICIENCY

0~+3%
GUARANTEED OUTPUT

As a leading global manufacturer of next generation photovoltaic believe close products, we 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





Our most versitile product

Compatible with all major BOS components and system designs



One of the industry's most trusted modules

- Over 2 GW sold across all major global markets
- Field proven performance



Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyong certification requirements



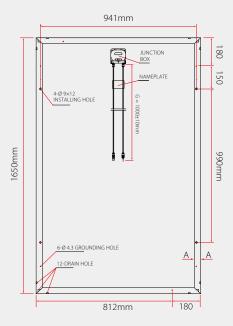
Certified to withstand challenging environmental conditions

- 130 km/hr wind load (2400 Pa)
- 900 kg snow load per module (5400 Pa)

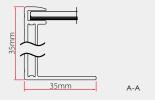


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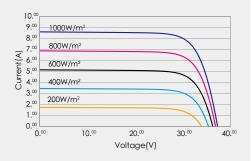
DIMENSIONS OF PV MODULE TSM-PC05.05



Back View



I-V CURVES OF PV MODULE TSM-240 PC05.05



CERTIFICATION















TSM-235 TSM-230 TSM-240 TSM-245 **ELECTRICAL DATA @ STC** PC05.05 PC05.05 PC05.05 PC05.05 Peak Power Watts-PMAX (Wp) 230 235 240 245 Power Output Tolerance-PMAX (%) 0/+3 0/+3 0/+3 0/+3 Maximum Power Voltage-V_{MPP} (V) 29.2 29.3 29.7 30.2 Maximum Power Current-Impp (A) 7.90 8.03 8.13 8.10 Open Circuit Voltage-Voc (V) 37.1 37.2 37.3 37.5 Short Circuit Current-Isc (A) 8.53 8.55 8.62 8.68 Module Efficiency η_m (%) 14.1 14.4 14.7 15.0

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-230 PC05.05	TSM-235 PC05.05	TSM-240 PC05.05	TSM-245 PC05.05
Maximum Power-P _{MAX} (Wp)	167	171	174	178
Maximum Power Voltage-V _{MPP} (V)	26.3	26.4	26.6	26.8
Maximum Power Current-Impp (A)	6.35	6.48	6.55	6.64
Open Circuit Voltage (V)-Voc (V)	33.9	34.0	34.1	34.2
Short Circuit Current (A)-Isc (A)	6.95	6.97	7.04	7.10

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	1650 × 992 × 35 mm
Weight	18.6 kg
Glass	High transparency solar glass 3.2 mm
Backsheet	Black
Frame	Black Anodized Aluminium Alloy
J-Box	IP 65 or IP 67 rated
Cables	Photovoltaic Technology cable 4.0 mm², 1000 mm
Connector	Original MC4

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of PMAX	-0.45%/°C
Temperature Coefficient of Voc	- 0.31%/°C
Temperature Coefficient of Isc	0.05%/°C

WARRANTY

10 year Product Workmanship Warranty

25 year Linear Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 29 pieces

Modules per 40' container: 812 pieces

MAXIMUM RATINGS

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



