TSM-PC05A THE Honey MODULE

60 CELL MULTICRYSTALLINE MODULE



15.9% MAXIMUM EFFICIENCY



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 expert 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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white -

Excellent low light performance on cloudy days, mornings and evenings

- Advanced surface texturing
- Back surface field
- Selective emitter



Maximize Limited Space

- 60-cell module power output up to 260W
- Up to 159W/m² power density



Highly reliable due to stringent quality control

- All modules have to pass electroluminescence (EL) inspection
- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements

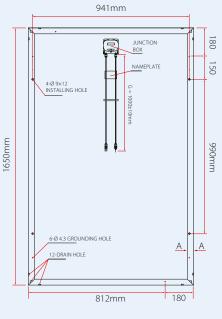


Certified to withstand challenging environmental conditions

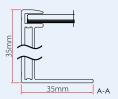
- 130 km/hr wind load (2400 Pa)
- 900 kg snow load per module (5400 Pa)
- 25 mm hail stones at 82 km/hr



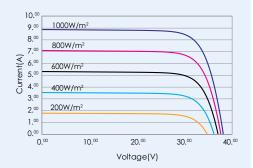
DIMENSIONS OF PV MODULE TSM-PC05A



Back View



I-V CURVES OF PV MODULE TSM-255 PC05A



CERTIFICATION





ELECTRICAL DATA @ STC	TSM-250 PC05A	TSM-255 PC05A	TSM-260 PC05A
Peak Power Watts-P _{MAX} (Wp)	250	255	260
Power Output Tolerance-P _{MAX} (%)	0/+3	0/+3	0/+3
Maximum Power Voltage-V _{MPP} (V)	30.3	30.5	30.6
Maximum Power Current-Impp (A)	8.27	8.37	8.50
Open Circuit Voltage-Voc (V)	38.0	38.1	38.2
Short Circuit Current-Isc (A)	8.79	8.88	9.00
Module Efficiency ŋm (%)	15.3	15.6	15.9

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-250 PC05A	TSM-255 PC05A	TSM-260 PC05A
Maximum Power-P _{MAX} (Wp)	183	186	190
Maximum Power Voltage-U _{MPP} (V)	27.3	27.4	27.5
Maximum Power Current-I _{MPP} (A)	6.70	6.79	6.91
Open Circuit Voltage-Uoc (V)	34.8	34.9	35.0
Short Circuit Current-Isc (A)	6.99	7.11	7.20

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

MECHANICAL DATA			
Solar Cells	Multicrystalline 156 x 156mm		
Cell Orientation	60 cells (6 x 10)		
Module Dimensions	todule Dimensions 1650 x 992 x 35 mm		
Weight	18.6 kg		
Glass	High Transparency Solar Glass 3.2 mm		
Backsheet	White		
Frame	Silver Anodized Aluminium Alloy		
J-Box	IP 65 or IP 67 rated		
Cables	Photovoltaic Technology Cable 4.0 mm ² , 1000 mm		
Connector	Original MC4		

TEMPERATURE RATINGS	
Nominal Operating Cell Temperature (NOCT)	44°C (±2°K)
Temperature Coefficient of PMAX	- 0.41%/°K
Temperature Coefficient of $V_{\mbox{\scriptsize OC}}$	- 0.32%/°K
Temperature Coefficient of Isc	0.053%/°K

10 year Product Workmanship Warranty

(Please refer to product warranty for details)

Modules per 40' container: 812 pieces

25 year Linear Power Warranty

PACKAGING CONFIGURATION

Modules per box: 29 pieces

WARRANTY

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

	TEM EN IIN 2013



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. © 2013 Trina Solar Limited. All rights reserved. Specifications included in this datasheet are subject to change without notice.