

THE Honey MODULE

TSM-PC05A



60 CELL

MULTICRYSTALLINE MODULE

250–260W

POWER OUTPUT RANGE

15.9%

MAXIMUM EFFICIENCY

0 to +3%

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 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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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
- PID resistant

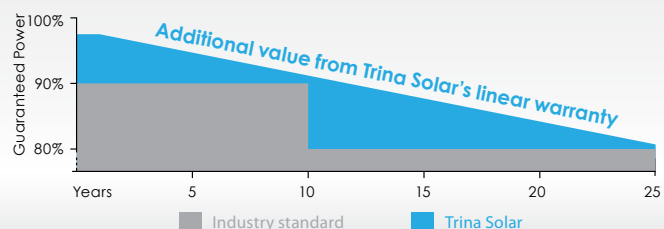


Certified to withstand challenging environmental conditions

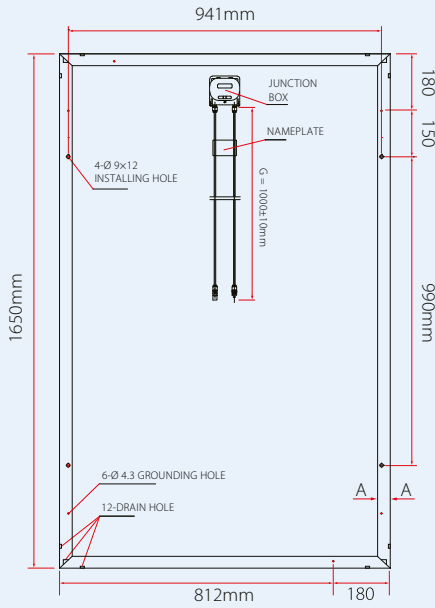
- 130 km/h wind load (2400 Pa)
- 900 kg snow load per module (5400 Pa)
- 35 mm hail stones at 97 km/h

LINEAR PERFORMANCE WARRANTY

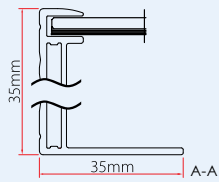
10 Year Product Warranty • 25 Year Linear Power Warranty



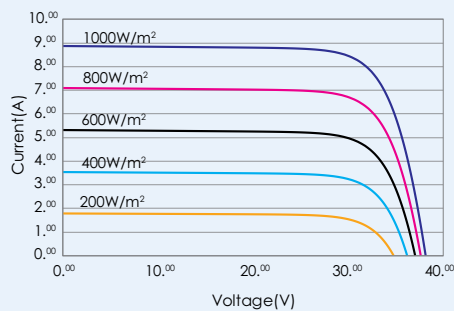
DIMENSIONS OF PV MODULE TSM-PC05A



Back View



I-V CURVES OF PV MODULE TSM-255 PC05A



CERTIFICATION

IEC61215/EN61215
IEC61730/EN61730
IEC 61701
DIN EN 60068-2-68 LC2
IEC 82/685/NP9
MCS BRE PV0183



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- I_{MPP} (A)	8.27	8.37	8.50
Open Circuit Voltage- V_{OC} (V)	38.0	38.1	38.2
Short Circuit Current- I_{SC} (A)	8.79	8.88	9.00
Module Efficiency η_m (%)	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)	186	190	193
Maximum Power Voltage- U_{MPP} (V)	28.0	28.1	28.3
Maximum Power Current- I_{MPP} (A)	6.65	6.74	6.84
Open Circuit Voltage- U_{OC} (V)	35.2	35.3	35.4
Short Circuit Current- I_{SC} (A)	7.10	7.17	7.27

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

MECHANICAL DATA

Solar Cells	Multicrystalline 156 x 156 mm
Cell Orientation	60 cells (6 x 10)
Module Dimensions	1650 x 992 x 35 mm
Weight	18.6 kg
Glass	High Transparency, Anti-Reflective, AR Coated and Heat Tempered Solar Glass - 3.2mm
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
J-Box	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 (±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	1000V DC (IEC)
Max Series Fuse Rating	12A
Mechanical Load	5400pa
Wind Load	2400pa

WARRANTY

10 year Product Workmanship Warranty

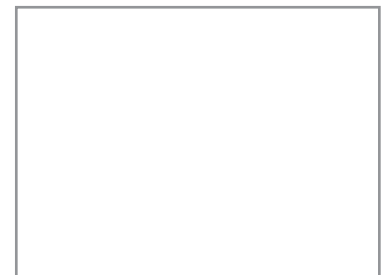
25 year Linear Performance Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 30 pieces

Modules per 40' container: 840 pieces



TSM_EN_SEP_2014