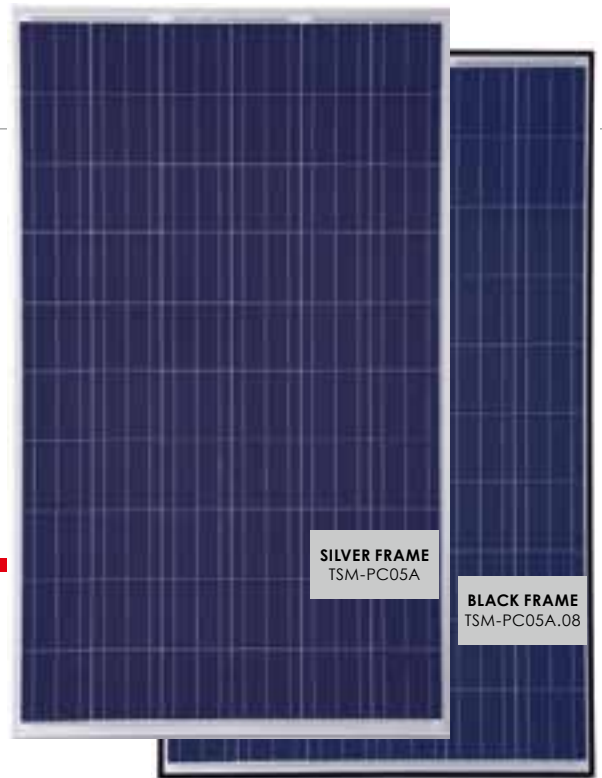


# TSM-PC05A TSM-PC05A.08

## THE Honey MODULE

by **Trina**solar



**16.2%**  
MAX EFFICIENCY

**265W**  
MAX POWER OUTPUT

**10 YEAR**  
PRODUCT WARRANTY

**25 YEAR**  
LINEAR POWER WARRANTY

Founded in 1997, Trina Solar is a vertically integrated PV manufacturer, involved in the production of ingots, wafers and cells to the assembly of high quality modules, using both mono and multi-crystalline technologies. As of June 2012, the Company has already achieved an annualized nameplate module capacity of approximately 2.4GW. 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.

Trina Solar Limited  
[www.trinasolar.com](http://www.trinasolar.com)



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**



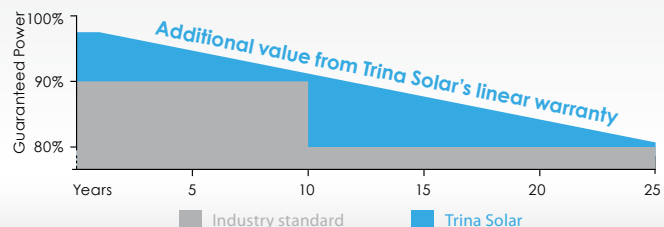
Manufactured according to International Quality and Environment Management System Standards  
**ISO9001, ISO14001**



Approved **original MC4** Photovoltaic connector for highest reliability

### LINEAR PERFORMANCE WARRANTY

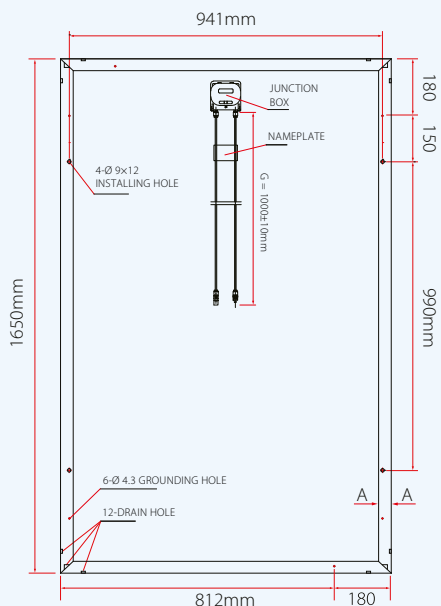
10 Year Product Warranty • 25 Year Linear Power Warranty



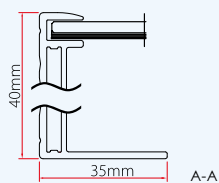
# TSM-PC05A/PC05A.08 THE Honey MODULE

by TrinaSolar

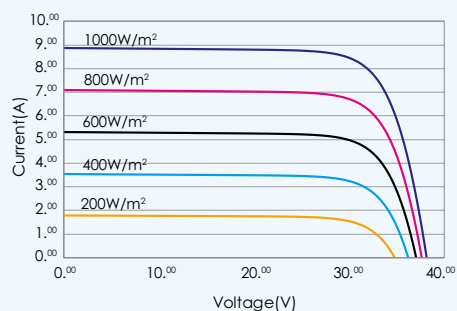
## DIMENSIONS OF PV MODULE TSM-PC05A/PC05A.08



Back View



## I-V CURVES OF PV MODULE TSM-255 PC05A/PC05A.08



Average efficiency reduction of 4.5% at 200W/m<sup>2</sup> according to EN 60904-1.

## CERTIFICATION



## ELECTRICAL DATA @ STC

	TSM-250 PC05A/ 05A.08	TSM-255 PC05A/ 05A.08	TSM-260 PC05A/ 05A.08	TSM-265 PC05A/ 05A.08
Peak Power Watts-P <sub>MAX</sub> (Wp)	250	255	260	265
Power Output Tolerance-P <sub>MAX</sub> (%)	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-V <sub>MP</sub> (V)	30.3	30.5	30.6	31.0
Maximum Power Current-I <sub>MPP</sub> (A)	8.27	8.37	8.50	8.55
Open Circuit Voltage-V <sub>OC</sub> (V)	38.0	38.1	38.2	38.4
Short Circuit Current-I <sub>SC</sub> (A)	8.79	8.88	9.00	9.1
Module Efficiency η <sub>m</sub> (%)	15.3	15.6	15.9	16.2

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C).

## ELECTRICAL DATA @ NOCT

	TSM-250 PC05A/ 05A.08	TSM-255 PC05A/ 05A.08	TSM-260 PC05A/ 05A.08	TSM-265 PC05A/ 05A.08
Maximum Power-P <sub>MAX</sub> (Wp)	183	186	190	193
Maximum Power Voltage-U <sub>MPP</sub> (V)	27.3	27.4	27.5	27.7
Maximum Power Current-I <sub>MPP</sub> (A)	6.70	6.79	6.91	6.96
Open Circuit Voltage-U <sub>OC</sub> (V)	34.8	34.9	35.0	35.2
Short Circuit Current-I <sub>SC</sub> (A)	6.99	7.11	7.20	7.28

NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

## MECHANICAL DATA

Solar cells	Multicrystalline 156 × 156mm (6 inches)
Cell orientation	60 cells (6 × 10)
Module dimensions	1650 × 992 × 40mm (64.95 × 39.05 × 1.57 inches)
Weight	19.5kg (43.0 lb)
Glass	High transparency solar glass 3.2mm (0.13 inches)
Frame	Anodized aluminium alloy (TSM-PC05A.08: in black)
J-Box	IP 65 rated
Cables	Photovoltaic Technology cable 4.0mm <sup>2</sup> (0.006 inches <sup>2</sup> ), 1000mm (39.4 inches)
Connector	Original MC4

## TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C (±2°C)
Temperature Coefficient of P <sub>MAX</sub>	- 0.41%/K
Temperature Coefficient of V <sub>OC</sub>	- 0.32%/K
Temperature Coefficient of I <sub>SC</sub>	0.053%/K

## MAXIMUM RATINGS

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

## WARRANTY

10 year workmanship warranty

25 year linear performance warranty

(Please refer to product warranty for details)

## PACKAGING CONFIGURATION

Modules per box: 24 pcs

Modules per 40' container: 672 pcs

TSM\_EN\_SEP\_2012