TSM-PC14A THE Honey MODULE

72 CELL
MULTICRYSTALLINE MODULE

300-310W POWER OUTPUT RANGE

16.0%
MAXIMUM EFFICIENCY

0~+3%
POWER OUTPUT GUARANTEE

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





Excellent low light performance on cloudy days, mornings and evenings

- Advanced surface texturing
- Back surface field
- Selective emitter



Ideal for large scale installations

• High power footprint reduces installation time and BOS costs



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



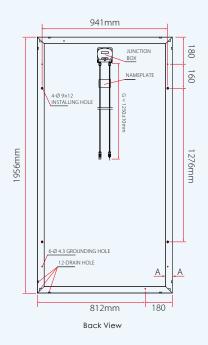
Certified to withstand challenging environmental conditions

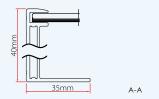
- 2400 Pa wind load
- 5400 Pa snow load per module
- 25 mm hail stones at 82 km/hr



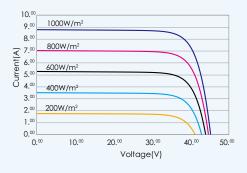
TSM-PC14A THE Honey MODULE

DIMENSIONS OF PV MODULE TSM-PC14A





I-V CURVES OF PV MODULE TSM-305 PC14A



CERTIFICATION













ELECTRICAL DATA @ STC	TSM-300 PC14A	TSM-305 PC14A	TSM-310 PC14A
Peak Power Watts-P _{MAX} (Wp)	300	305	310
Power Output Tolerance-PMAX (%)	0/+3	0/+3	0/+3
Maximum Power Voltage- V_{MPP} (V)	36.2	36.4	36.7
Maximum Power Current-I _{MPP} (A)	8.30	8.38	8.45
Open Circuit Voltage-Voc (V)	45.0	45.2	45.4
Short Circuit Current-Isc (A)	8.70	8.80	8.90
Module Efficiency ηm (%)	15.5	15.7	16.0

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-300 PC14A	TSM-305 PC14A	TSM-310 PC14A
Maximum Power-P _{MAX} (Wp)	219	223	226
Maximum Power Voltage-V _{MPP} (V)	32.3	32.7	32.9
Maximum Power Current-Impp (A)	6.77	6.81	6.86
Open Circuit Voltage (V)-Voc (V)	41.5	41.8	42.0
Short Circuit Current (A)-Isc (A)	7.03	7.06	7.15

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

MECHANICAL DATA

Solar cells	Multicrystalline 156 × 156 mm
Cell orientation	72 cells (6 × 12)
Module dimensions	1956 × 992 × 40 mm
Weight	27.6 kg
Glass	High transparency solar glass 4.0 mm
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
J-Box	IP 67 rated
Cables	Photovoltaic Technology cable 4.0 mm², 1250 mm
Connector	Original MC4

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C (±2°C)
Temperature Coefficient of PMAX	- 0.42%/°C
Temperature Coefficient of Voc	- 0.32%/°C
Temperature Coefficient of Isc	0.059%/°C

WARRANTY

10 year Product Workmanship Warranty
25 year Linear Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 25 pieces

Modules per 40' container: 550 pieces

MAXIMUM RATINGS

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



