



Origin3000 3.0 kW Solar System Panel Specifications

Your Origin system will be supplied with one of the following sets of panels:

Manufacturer	Mono Or Poly	Size (Watts)	Panels Required To Achieve Minimum 3000 Watts
Trina	Poly	250	12

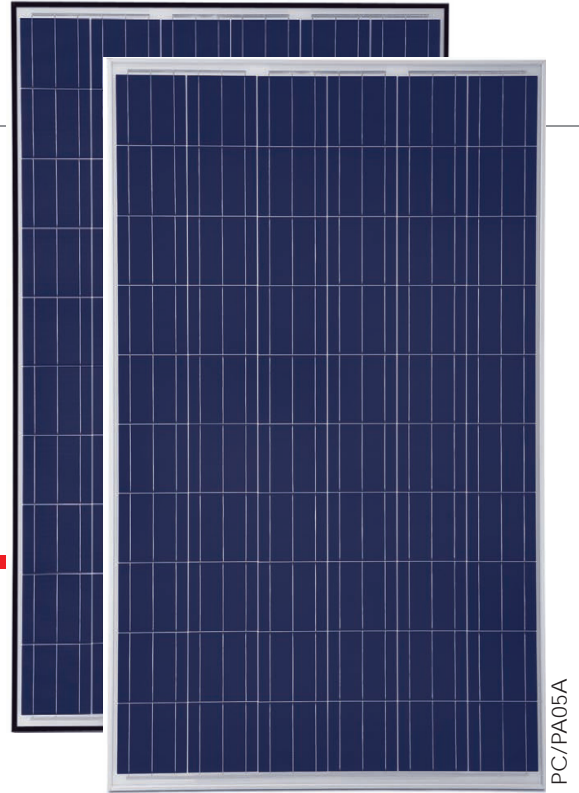
Please note all solar panels supplied are CEC accredited and compliant with IEC/EN61730 and IEC/EN61215 or IEC/EN61646.

Please see the following specification sheet for further details and panel specifications.

TSM-PC05A TSM-PA05A

THE Honey MODULE

by **Trina**solar



15.9%
MAX EFFICIENCY

260W
MAX POWER OUTPUT

10 YEAR
PRODUCT WARRANTY

25 YEAR
LINEAR POWER WARRANTY

Founded in 1997, Trina Solar (NYSE: TSL) has established itself as a leader in the solar community with its vertically integrated business model. Our modules and system solutions provide clean solar power in on-grid and off-grid residential, commercial, industrial and utility-scale systems.

With more than 22 offices worldwide, Trina Solar has partnerships with leading installers, distributors, utilities and developers in all major PV markets. Trina Solar is committed to driving smarter energy choices.

Trina Solar Limited
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



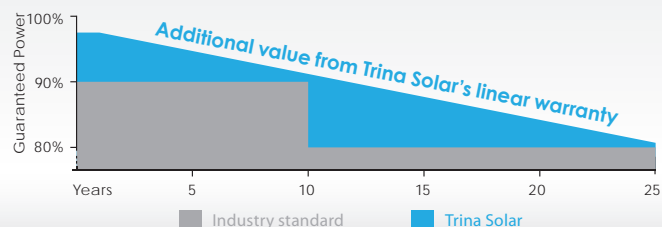
Manufactured according to International Quality and Environment Management System Standards
ISO9001, ISO14001



MC4 photovoltaic connectors increase system reliability

LINEAR PERFORMANCE WARRANTY

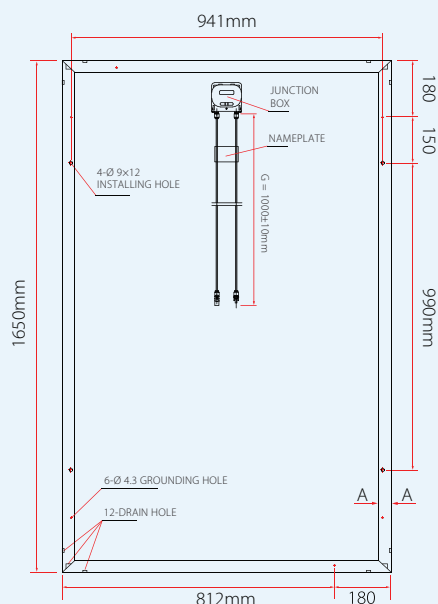
10 Year Product Warranty • 25 Year Linear Power Warranty



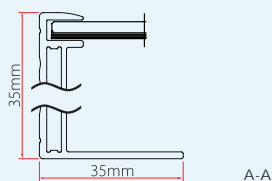
TSM-PC05A / TSM-PA05A THE Honey MODULE

by **Trina**

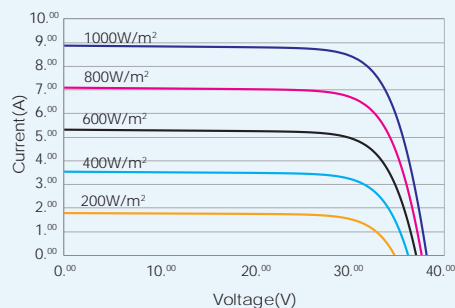
DIMENSIONS OF PV MODULE TSM-PC/PA05A



Back View



I-V CURVES OF PV MODULE TSM-255 PC/PA05A



Average efficiency reduction of 4.5% at 200W/m² according to EN 60904-1.

CERTIFICATION




ELECTRICAL DATA @ STC	TSM-250 PC/PA05A	TSM-255 PC/PA05A	TSM-260 PC/PA05A
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

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C). Power measurement tolerance: ±3%

ELECTRICAL DATA @ NOCT	TSM-250 PC/PA05A	TSM-255 PC/PA05A	TSM-260 PC/PA05A
Maximum Power-P _{MAX} (Wp)	183	186	190
Maximum Power Voltage-V _{MPP} (V)	27.3	27.4	27.5
Maximum Power Current-I _{MPP} (A)	6.70	6.79	6.91
Open Circuit Voltage (V)-V _{OC} (V)	34.8	34.9	35.0
Short Circuit Current (A)-I _{SC} (A)	6.99	7.11	7.20

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s. Power measurement tolerance: ±3%

MECHANICAL DATA

Solar cells	Multicrystalline 156 × 156mm (6 inches)
Cell orientation	60 cells (6 × 10)
Module dimensions	1650 × 992 × 35mm (64.95 × 39.05 × 1.37 inches)
Weight	18.6kg (41.0 lb)
Glass	High transparency solar glass 3.2mm (0.13 inches)
Frame	Anodized aluminium alloy
J-Box	IP 65 rated
Cables	Photovoltaic Technology cable 4.0mm ² (0.006 inches ²), 1000mm (39.4 inches)
Connector	Original MC4 

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C (±2°C)
Temperature Coefficient of P _{MAX}	-0.41%/°C
Temperature Coefficient of V _{OC}	-0.32%/°C
Temperature Coefficient of I _{SC}	0.053%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1000V DC(IEC)/600V DC(UL)
Max Series Fuse Rating	15A

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