# TSM-PA05.18

### THE **Trina**mount MODULE

60 CELL

MULTICRYSTALLINE MODULE WITH TRINAMOUNT FRAME

240-260W

**POWER OUTPUT RANGE** 

15.9%
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





#### Our most versitile product

Compatible with all major BOS components and system designs



### One of the industry's most trusted modules

- Over 2 GW sold across all major global markets
- Field proven performance



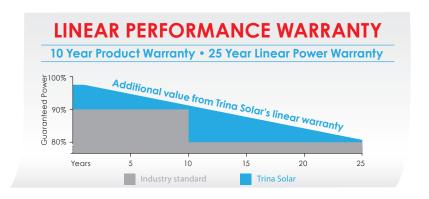
#### Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements



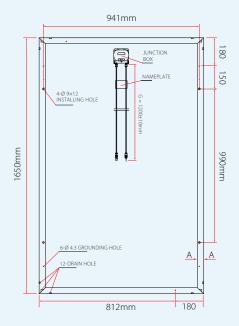
## Certified to withstand challenging environmental conditions

- 130 km/hr wind load (2400 Pa)
- 900 kg snow load per module (5400 Pa)

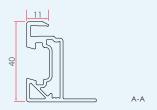


### TSM-PA05.18 THE Trinamount MODULE

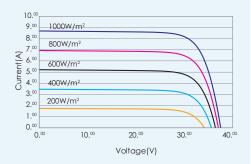
#### **DIMENSIONS OF PV MODULE TSM-PA05.18**



Back View



#### I-V CURVES OF PV MODULE TSM-245 PA05.18



#### CERTIFICATION













#### TSM-245 TSM-255 TSM-240 TSM-250 TSM-260 **ELECTRICAL DATA @ STC** PA05.18 PA05.18 PA05.18 PA05.18 PA05.18 Peak Power Watts-PMAX (Wp) 240 245 250 255 260 Power Output Tolerance-PMAX (%) 0/+3 0/+3 0/+3 0/+3 0/+3 Maximum Power Voltage-V<sub>MP</sub> (V) 297 30.2 30.3 30.5 30.7 Maximum Power Current-Impp (A) 8.10 8.13 8.27 8.36 8.47 Open Circuit Voltage-Voc (V) 37.3 37.5 37.6 37.7 37.9 Short Circuit Current-Isc (A) 8.62 8.85 8.92 9.00 8.68 Module Efficiency η<sub>m</sub> (%) 14.7 15.0 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-240 PA05.18	TSM-245 PA05.18	TSM-250 PA05.18	TSM-255 PA05.18	TSM-260 PA05.18
Maximum Power-P <sub>MAX</sub> (Wp)	174	178	181	184	188
Maximum Power Voltage-V <sub>MP</sub> (V)	26.6	26.8	27.0	27.2	27.4
Maximum Power Current-Impp (A)	6.55	6.64	6.70	6.77	6.86
Open Circuit Voltage (V)-Voc (V)	34.1	34.2	34.3	34.4	34.6
Short Circuit Current (A)-Isc (A)	7.04	7.10	7.25	7.31	7.37

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

#### **MECHANICAL DATA**

Solar cells	Multicrystalline 156 × 156 mm (6 inches)
Cell orientation	60 cells (6 × 10)
Module dimensions	1650 × 992 × 40 mm (64.95 × 39.05 × 1.57 inches)
Weight	21.3 kg (47.0 lbs)
Glass	High transparency solar glass 3.2 mm (0.13 inches)
Backsheet	White
Frame	Black Anodized Aluminium Alloy with Trinamount Groove
J-Box	IP 65 or IP 67 rated
Cables	Photovoltaic Technology cable 4.0 mm² (0.006 inches²), 1200 mm (47.2 inches)
Connector	Original MC4

#### **TEMPERATURE RATINGS**

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)	
Temperature Coefficient of PMAX	-0.43%/°C	
Temperature Coefficient of Voc	- 0.32%/°C	
Temperature Coefficient of Isc	0.047%/°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: 700 pieces

#### **MAXIMUM RATINGS**

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





