## TSM-PA05 The Universal Solution



Easy installation and handling for various applications


Module can bears snow loads (5400PA) and wind loads (2400PA)


Guaranteed power output (0~+3\%)


High performance under low light conditions (Cloudy days, mornings and evenings)

Independently certified by international certification body*

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


Currently the most popular panel produced by Trina Solar. Versatile and adaptable, with power output ranging from 220 to 240Wp, the TSM-PA05 panel is perfect for large-scale installations, particularly ground-mounted and commercial rooftop systems. Using reliable and carefully selected components that are tested at the Trina Solar Center of Excellence, this panel comes with a 25-year performance guarantee of $80 \%$ power production.

## Trina Solar, the best $\$ / \mathrm{kWh}$ value under the sun



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Founded in 1997, Trina Solar is a vertically integrated PV manufacturer, producing everything from ingots to modules, using both mono and multicrystalline technologies. At the end of 2010, the company will have a nameplate module capacity of 950MW. 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.

General Data

| Cell Type | $6 \times 6$ in Multicrystalline silicon, 60pcs ( $6 \times 10$ ) |
| :--- | :--- |
| Glass | High Transmission, Low Iron, Tempered Glass 0.13in |
| Frame | Anodized Aluminum |
| J-Box / Connector | 1. Tyco /Tyco, IP65 |
|  | 2. Re $/$ MC4, IP65 |

## Temperature Ratings

Nominal Operating Cell Temperature (NOCT) $46^{\circ} \mathrm{C}\left( \pm 2^{\circ} \mathrm{C}\right)$
Temperature Coefficient of $\mathrm{P}_{\text {MPP }}$
$-0.45 \% /{ }^{\circ} \mathrm{C}$
Temperature Coefficient of $\mathrm{V}_{\text {oc }}$
$-0.35 \% /{ }^{\circ} \mathrm{C}$
Temperature Coefficient of $\mathrm{I}_{\mathrm{sc}}$
$0.05 \% /{ }^{\circ} \mathrm{C}$

## Mechanical and Packing Configuration

Dimensions ( $\mathrm{A} \times \mathrm{B} \times \mathrm{C}$ )
Installation Hole Dimensions (E x F)
Cable length (G)
Weight
Packing Configuration
Quantity/Pallet
Loading Capacity
$64.96 \times 39.05 \times 1.81 \mathrm{in}$ $38.98 \times 37.05 i n$
39.37in
43.01 b

20pcs/carton
1carton/pallet
520pcs/40ft, 120pcs/20ft

## Maximum Ratings

Operating Temperature

System Voltage
Maximum Series Fuse
600VDC
15A

## Warranty

5 years manufacturing warranty
10 years warranty, $90 \%$ power output
25 years warranty, $80 \%$ power output
$\square$

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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