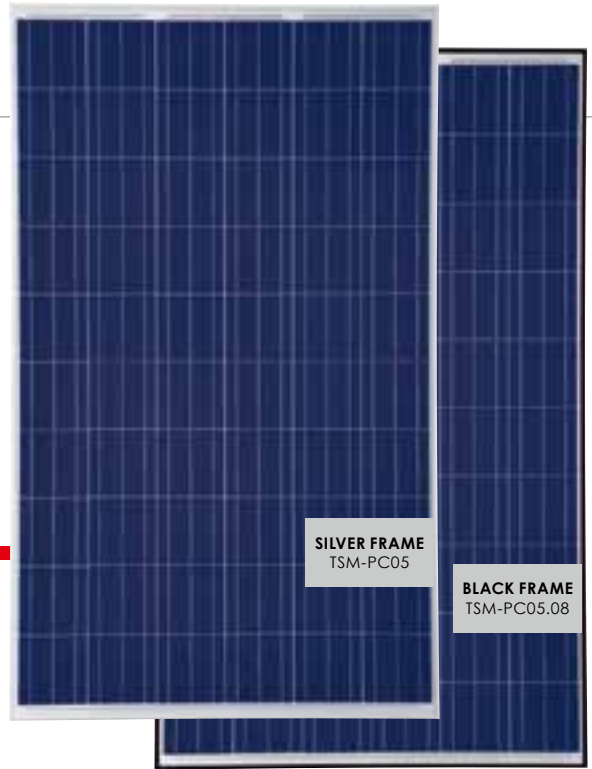


TSM-PC05 TSM-PC05.08

THE UNIVERSAL SOLUTION



15.0%
MAX EFFICIENCY

245W
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



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



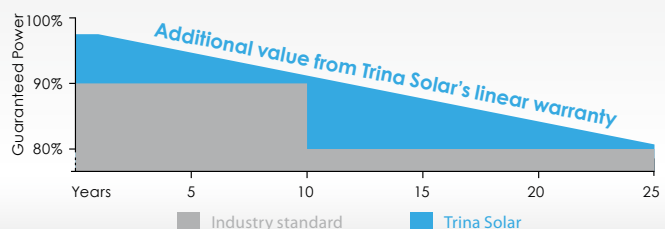
Manufactured according to International Quality and Environment Management System Standards
ISO9001, ISO14001



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

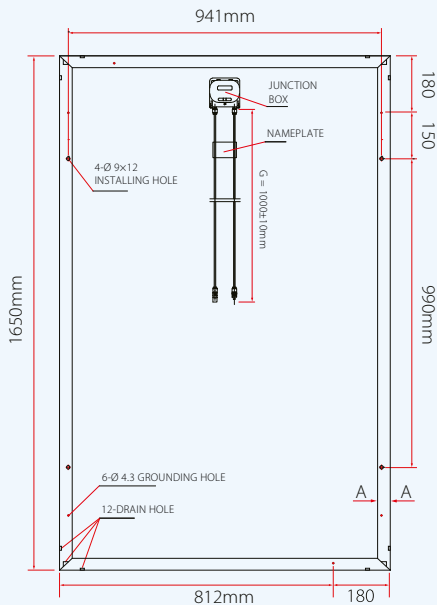
LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty

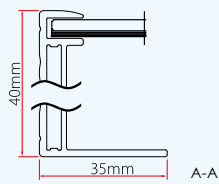


TSM-PC05/PC05.08 THE UNIVERSAL SOLUTION

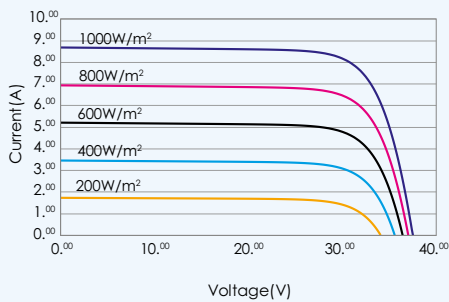
DIMENSIONS OF PV MODULE TSM-PC05/PC05.08



Back View



I-V CURVES OF PV MODULE TSM-245 PC05/PC05.08



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

CERTIFICATION



ELECTRICAL DATA @ STC	TSM-230 PC05/05.08	TSM-235 PC05/05.08	TSM-240 PC05/05.08	TSM-245 PC05/05.08
Peak Power Watts-P _{MAX} (Wp)	230	235	240	245
Power Output Tolerance-P _{MAX} (%)	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-V _{MP} (V)	29.2	29.3	29.7	30.2
Maximum Power Current-I _{MPP} (A)	7.90	8.03	8.10	8.13
Open Circuit Voltage-V _{OC} (V)	37.1	37.2	37.3	37.5
Short Circuit Current-I _{SC} (A)	8.53	8.55	8.62	8.68
Module Efficiency η _m (%)	14.1	14.4	14.7	15.0

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

ELECTRICAL DATA @ NOCT	TSM-230 PC05/05.08	TSM-235 PC05/05.08	TSM-240 PC05/05.08	TSM-245 PC05/05.08
Maximum Power-P _{MAX} (Wp)	167	171	174	178
Maximum Power Voltage-U _{MPP} (V)	26.3	26.4	26.6	26.8
Maximum Power Current-I _{MPP} (A)	6.35	6.48	6.55	6.64
Open Circuit Voltage-U _{OC} (V)	33.9	34.0	34.1	34.2
Short Circuit Current-I _{SC} (A)	6.95	6.97	7.04	7.10

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

MECHANICAL DATA

Solar cells	Multicrystalline 156 × 156mm (6 inches)
Cell orientation	60 cells (6 × 10)
Module dimension	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-PC05.08: in black)
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)	45°C (±2°C)
Temperature Coefficient of P _{MAX}	-0.43%/K
Temperature Coefficient of V _{OC}	-0.32%/K
Temperature Coefficient of I _{SC}	0.047%/K

MAXIMUM RATINGS

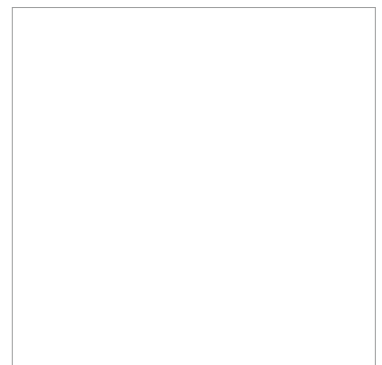
Operational Temperature	-40~+85°C
Maximum System Voltage	1000V DC (IEC)
Max Series Fuse Rating	15A

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