

Mono

Multi

Solutions

TSM-PC05 TSM-PC05.08

THE UNIVERSAL MODULE

15.0%
MAX EFFICIENCY

245W
MAX POWER OUTPUT

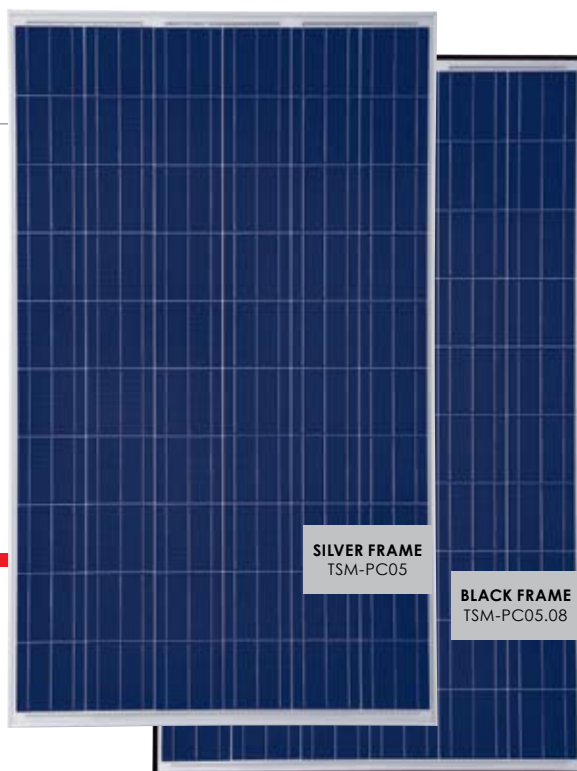
10 YEAR
PRODUCT WARRANTY

25 YEAR
LINEAR POWER WARRANTY

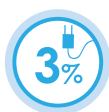
Trina Solar (NYSE: TSL) is a global leader in photovoltaic modules, solutions and services. Founded in 1997 as a PV system integrator, Trina Solar today drives smart energy together with installers, distributors, utilities and developers worldwide. The company's industry-shaping position is based on innovation excellence, superior product quality, vertically integrated capabilities and environmental stewardship.

Trina Solar Limited
www.trinasolar.com

Trinasolar
Smart Energy Together



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



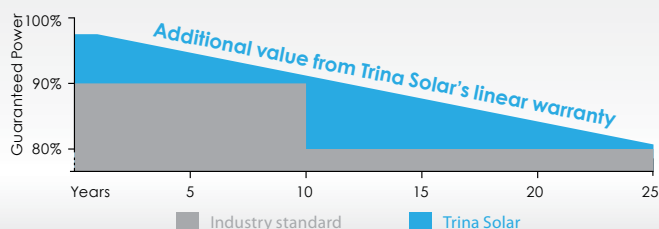
Manufactured according to International Quality and Environment Management System Standards
ISO9001, ISO14001



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

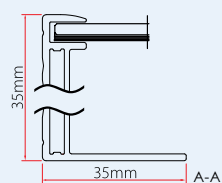
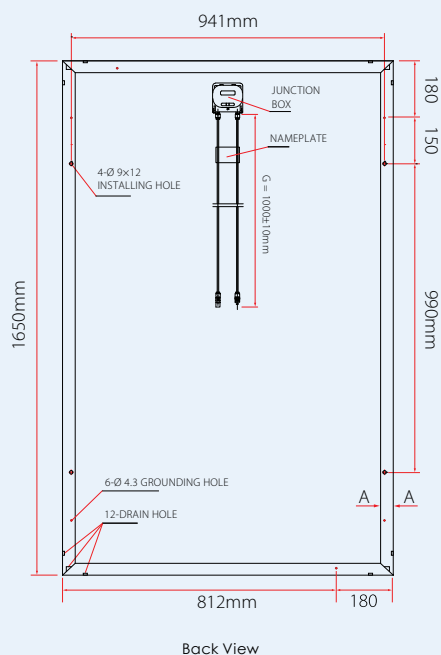
LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty

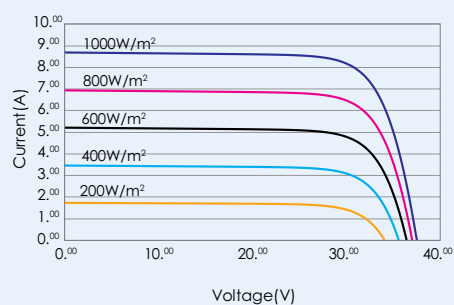


TSM-PC05/PC05.08 THE UNIVERSAL MODULE

DIMENSIONS OF PV MODULE TSM-PC05/PC05.08



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
Cell orientation	60 cells (6 × 10)
Module dimension	1650 × 992 × 35mm
Weight	18.6kg
Glass	High transparency solar glass 3.2mm
Frame	Anodized aluminium alloy (TSM-PC05.08: in black)
J-Box	IP 65 rated
Cables	Photovoltaic Technology cable 4.0mm², 1000mm
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: 29 pcs
Modules per 40' container: 812 pcs

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