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 multicrystalline technologies. As of July 2011, the Company has already achieved an annualized nameplate module capacity of approximately 1.9GW. 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 coststructure 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



Independently certified by **international** certification bodies



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



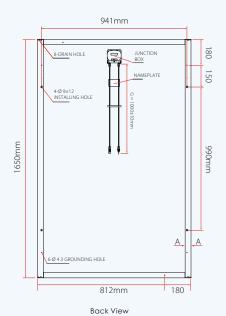
Black frame improves aesthetics

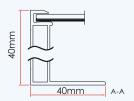




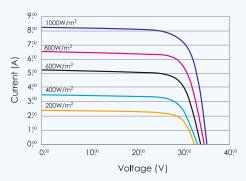
TSM-PC05.08 THE UNIVERSAL SOLUTION

DIMENSIONS OF PV MODULE TSM-PC05.08





I-V CURVES OF PV MODULE TSM-230 PC05.08



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

CERTIFICATION

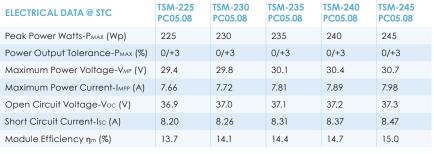












Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C).

ELECTRICAL DATA @ NOCT	TSM-225 PC05.08	TSM-230 PC05.08	TSM-235 PC05.08	TSM-240 PC05.08	TSM-245 PC05.08
Maximum Power (W)	164	168	172	175	178
Maximum Power Voltage (V)	26.9	27.1	27.4	27.7	27.8
Maximum Power Current (A)	6.12	6.20	6.27	6.32	6.41
Open Circuit Voltage (V)	33.8	33.9	34.0	34.1	34.2
Short Circuit Current (A)	6.62	6.68	6.70	6.75	6.83

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

MECHANICAL DATA

Solar cells	Multicrystalline 156 x 156mm (6 inches)
Cell orientation	60 cells (6 x 10)
Module dimension	1650 x 992 x 40mm (64.95 x 39.05 x 1.57 inches)
Weight	19.5 kg (43.0 lb)
Glass	High transparancy solar glass 3.2mm (0.13 inches)
Frame	Anodized aluminium alloy
J-Box	IP 65 rated
Cables / Connector	Photovoltaic Technology cable 4.0mm² (0.006 inches²), 1000mm (39.4 inches), MC4

TEMPER A	ATURE RATINGS	
	Operating Cell ture (NOCT)	46°C (±2°C)
Tempera	ture Coefficient of PMAX	- 0.43%/K
Tempera	ture Coefficient of Voc	- 0.32%/K

TEMPERATURE RATINGS	
Nominal Operating Cell Temperature (NOCT)	46°C (±2°C)
Temperature Coefficient of PMA	- 0.43%/K
Temperature Coefficient of Vo	- 0.32%/K
Temperature Coefficient of Isc	0.043%/K

WARRANTY
10 year workmanship warranty
25 year linear performance warranty
(Please refer to product warranty for details)
PACKAGING CONFIGURATION



MAXIMUM RATINGS Operational Temperature -40~+85°C

Maximum System 1000V DC(IEC)/ Voltage 600V DC(UL) Max Series Fuse Rating 15A

