TSM-PC05 THE UNIVERSAL SOLUTION

This product is also available as "Made in EU" certified module.





Module can bear snow loads up to **5400Pa** and wind loads up to **2400Pa**

3%

Guaranteed power output 0~+3%



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



Independently certified by international certification bodies IEC61215, IEC61730, UL1703, TUV Safety Class II, CE



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



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



TSM-PC05 THE UNIVERSAL SOLUTION

DIMENSIONS OF PV MODULE TSM-PC05





I-V CURVES OF PV MODULE TSM-230 PC05



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

CERTIFICATION



TSM-225 PC05	TSM-230 PC05	TSM-235 PC05	TSM-240 PC05	TSM-245 PC05
225	230	235	240	245
0/+3	0/+3	0/+3	0/+3	0/+3
29.4	29.8	30.1	30.4	30.7
7.66	7.72	7.81	7.89	7.98
36.9	37.0	37.1	37.2	37.3
8.20	8.26	8.31	8.37	8.47
13.7	14.1	14.4	14.7	15.0
	PC05 225 0/+3 29.4 7.66 36.9 8.20	PC05 PC05 225 230 0/+3 0/+3 29.4 29.8 7.66 7.72 36.9 37.0 8.20 8.26	PC05 PC05 PC05 225 230 235 0/+3 0/+3 0/+3 29.4 29.8 30.1 7.66 7.72 7.81 36.9 37.0 37.1 8.20 8.26 8.31	PC05 PC05 PC05 PC05 225 230 235 240 0/+3 0/+3 0/+3 0/+3 29.4 29.8 30.1 30.4 7.66 7.72 7.81 7.89 36.9 37.0 37.1 37.2 8.20 8.26 8.31 8.37

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

ELECTRICAL DATA @ NOCT	TSM-225 PC05	TSM-230 PC05	TSM-235 PC05	TSM-240 PC05	TSM-245 PC05
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	19.5kg (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 / H4				

TEMPERATURE RATINGS Nominal Operating Cell Temperature (NOCT) 46°C (±2°C Temperature Coefficient of PMAX - 0.43%/K Temperature Coefficient of Voc - 0.32%/K Temperature Coefficient of Isc 0.047%/K

		MAXIMUM RATINGS	
C)	Operational Temperature	-40~+	
	Maximum System Voltage	1000\ 600V	
		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: 25 pcs

Modules per 40' container: 650 pcs

+85°C VDC(IEC)/ DC(UL)





CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. © 2011 Trina Solar Limited. All rights reserved. Specifications included in this datasheet are subject to change without notice.