TSM-PC14 TSM-PA14

THE UTILITY SOLUTION

15.7%
MAX EFFICIENCY

305W
MAX POWER OUTPUT

10 YEAR PRODUCT WARRANTY

25 YEAR

LINEAR POWER WARRANTY

Founded in 1997, Trina Solar is one of the world's leading PV companies. Since its IPO on the NYSE in 2006, Trina Solar has developed a vertically integrated business model, with in-house production of ingots, wafers, cells and solar panels in both mono and multicrystalline technologies. Its manufacturing capacity for solar panels will be 2.4GW by the end of 2012, making it one of the largest solar manufacturers in the world. Trina Solar's extensive portfolio includes panels for all kinds of applications-residential, utility, offgrid, BIPV as well as innovative system solutions.

With 20 branch offices around the world, Trina Solar is serving leading installers, distributors, utilities and developers in all major PV markets. Trina Solar is committed to driving down the cost of solar and making it more affordable for all.

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



Enhanced module durability with **4.0mm** thick tempered glass



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



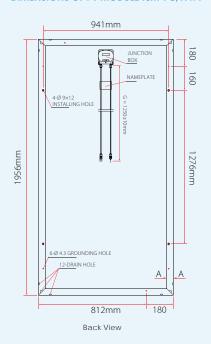
Approved **original MC4** Photovoltaic connector used with highest reliability

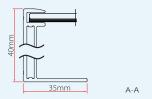




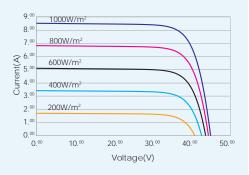
TSM-PC14 / TSM-PA14 Utility Scale Solar Module

DIMENSIONS OF PV MODULE TSM-PC/PA14





I-V CURVES OF PV MODULE TSM-290 PC/PA14



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

CERTIFICATION





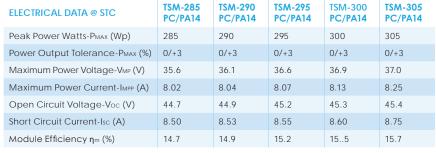












Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C).

ELECTRICAL DATA @ NOCT	TSM-285 PC/PA14	TSM-290 PC/PA14	TSM-295 PC/PA14	TSM-300 PC/PA14	TSM-305 PC/PA14
Maximum Power-P _{MAX} (Wp)	207	211	214	218	221
Maximum Power Voltage-V _{MP} (V)	32.1	32.6	33.0	33.3	33.4
Maximum Power Current-Impp (A)	6.46	6.47	6.48	6.55	6.62
Open Circuit Voltage (V)-Voc (V)	40.7	40.9	41.2	41.3	41.4
Short Circuit Current (A)-Isc (A)	6.93	6.97	7.00	7.04	7.17

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s Power measurement tolerance: ±3%

MECHANICAL DATA

Solar cells	Multicrystalline 156 × 156mm (6 inches)
Cell orientation	72 cells (6 × 12)
Module dimensions	1956 × 992 × 40mm (77 × 39.05 × 1.57 inches)
Weight	27.6kg (60.8 lb)
Glass	High transparency solar glass 4.0mm (0.16 inches)
Frame	Anodized aluminium alloy
J-Box	IP 67 rated
Cables	Photovoltaic Technology cable 4.0mm² (0.006 inches²) , 1250mm (49.2 inches)
Connector	MC4 Multi-Contact MC

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)	
Temperature Coefficient of PMAX	- 0.44%/°C	
Temperature Coefficient of Voc	- 0.33%/°C	
Temperature Coefficient of Isc	0.046%/°C	

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: 528 pcs

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Operational Temperature	-40~+85°C
Maximum System Voltage	1000V DC(IEC)/ 600V DC(UL)
Max Series Fuse Rating	15A





