TSM-PC14 TSM-PA14 THE UTILITY SOLUTION

15.7% MAX EFFICIENCY



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





20514

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 applicationsresidential, utility, offgrid, BIPV as well as innovative system solutions.

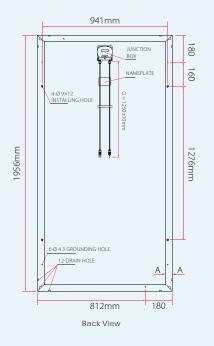
With 20 branch offices around the world, Trina Solar is serving leading installers, distributors, utilities and developers in all major PV markets. Trina Solar is committed to driving down the cost of solar and making it more affordable for all.

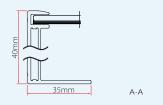
Trina Solar Limited www.trinasolar.com



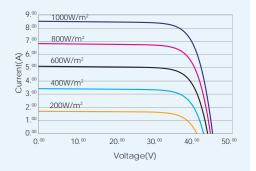
TSM-PC14 / TSM-PA14 Utility Scale Solar Module

DIMENSIONS OF PV MODULE TSM-PC/PA14





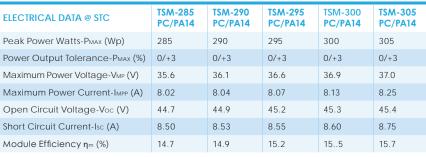
I-V CURVES OF PV MODULE TSM-290 PC/PA14



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). Power measurement tolerance: ±3%

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: $\pm 3\%$

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

MAXIMUM RATINGS

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



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. © 2012 Trina Solar Limited. All rights reserved. Specifications included in this datasheet are subject to change without notice.

