THE UTILITY MODULE

72 CELL MULTICRYSTALLINE MODULE

295–310W POWER OUTPUT RANGE

16.0%



TRINA SOLAR: A STRONG AND RELIABLE PARTNER

As a leading global manufacturer of next generation photovoltaic products, Trina Solar is committed to building mutually beneficial alliances with installers, developers, distributors and technological partners as the backbone of our shared goal to drive Smart Energy Together. Thanks to an extensive sales and service network with local expert teams throughout Europe, Trina Solar is perfectly positioned to support your needs. With Trina Solar as your strong, bankable partner you can rest assured knowing that you've made the right choice.

www.trinasolar.com



Ideal for large scale installations • High power footprint reduces installation time & BOS costs



One of the industry's most trusted modules

- Field proven performance
- Trina Solar's financial solidity consistently confirmed by banks and investors



Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- PID resistant



Certified to withstand challenging environmental conditions

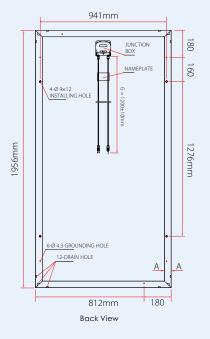
- 2400 Pa wind load
- 5400 Pa snow load
- 25 mm hail stones at 82 km/h

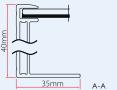


TSM-310

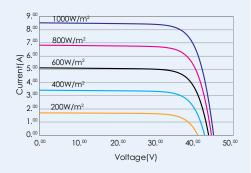
TSM-305

DIMENSIONS OF PV MODULE TSM-PC14





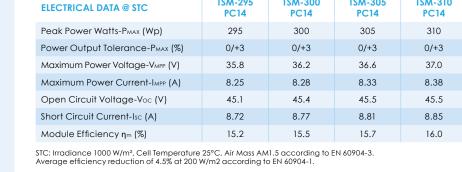
I-V CURVES OF PV MODULE TSM-290 PC14



CERTIFICATION

IEC61215/EN61215 IEC61215/EN61215 IEC61730/EN61730 IEC 61701 IEC 627162 PfG 1917/05.11 DIN EN 60068-2-68 LC2 IEC 82/685/NP9 MCS BRE PV0183





TSM-295

TSM-300

ELECTRICAL DATA @ NOCT	TSM-295 PC14	TSM-300 PC14	TSM-305 PC14	TSM-310 PC14
Maximum Power-PMAX (Wp)	220	223	227	231
Maximum Power Voltage-V _{MPP} (V)	33.2	33.5	33.8	34.1
Maximum Power Current-I _{MPP} (A)	6.61	6.66	6.72	6.77
Open Circuit Voltage-Uoc (V)	41.8	42.1	42.2	42.2
Short Circuit Current-Isc (A)	7.04	7.08	7.11	7.15

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

MECHANICAL DATA	
Solar cells	Multicrystalline 156 × 156 mm
Cell orientation	72 cells (6 × 12)
Module dimensions	1956 x 992 x 40 mm
Weight	27.6 kg
Glass	High Transparency, Anti-Reflective, AR Coated and Heat Tempered Solar Glass - 4.0mm
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
J-Box	IP 67 rated
Cables	Photovoltaic Technology cable 4.0 mm ² , 1200 mm
Connector	Original MC4

T	EMPERATURE RATINGS	
	Nominal Operating Cell Temperature (NOCT)	45°C (±2°K)
Т	emperature Coefficient of PMAX	- 0.41%/K
Т	emperature Coefficient of Voc	- 0.32%/K
Т	emperature Coefficient of Isc	0.05%/K

MAXIMUM RATINGS	
Operational Temperature	-40~+85°C
Maximum System Voltage	1000V DC (IEC)
Max Series Fuse Rating	12A

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

PACKAGING CONFIGURATION

Modules per box: 26 pieces Modules per 40' container: 572 pieces

Mechanical Load 5400pa Wind Load 2400pa



CAUTION: READ SAFETY AND INSTALL ATION INSTRUCTIONS BEFORE USING THE PRODU CT. © 2014 Trina Solar Limited. All rights reserved. Specifications included in this datasheet are subject to change without notice.

Smart Energy Together