TSM-DC01 The Universal Solution

Easy installation and handling for various applications

Module bears load up to 5400Pa

Guaranteed power output $(0 \sim +3\%)$

Independently certified by international certification body (TUV, UL, ICIM, VDE, JET and SGS)*

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



Trina Solar's best selling panel since 2004. One of the world's most reliable panels, tested and proven by internationally renowned institutions such as the TUV Rheinland and the Desert Knowledge Australia Center. Satisfying our customers all around the globe, the TSM-DC01 works in any type of installation, from off-grid systems in Tibet to large commercial rooftops in New Jersey and ground-mounted projects in the Australian desert.

Trina Solar, **the best €/kWh** value under the sun



Trina Solar Limited

ISO`

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Founded in 1997, Trina Solar is a vertically integrated PV manufacturer, producing everything from ingots to modules, using both mono and multicrystalline technologies. At the end of 2009, the company had a nameplate module capacity of 600MW. Trina Solar's wide range of products are used in residential, commercial, industrial and public utility applications throughout the world.

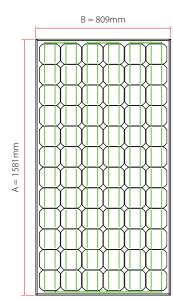
Only by matching an efficient cost-structure with proven performance will we, as an industry, achieve grid parity. And at Trina Solar, we have both.

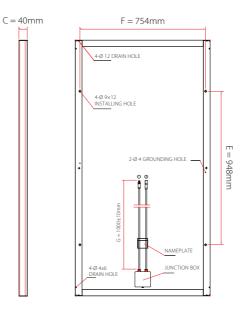


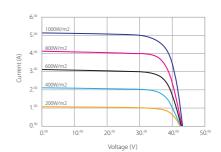
TSM-DC01 The Universal Solution

Dimensions of PV module TSM-DC01

I-V Curves of PV module TSM-180DC01







Efficiency	up to 14.50
Wattage	up to 185
Years warranty	25

Certification

Electrical Data @ STC	TSM-175DC01	TSM-180DC01	TSM-185DC01
Peak Power Watts-P _{MAX} (WP)	175	180	185
Power Output Tolerance-P _{MAX} (%)	0/+3	0/+3	0/+3
Maximum Power Voltage-V _{MAX} (V)	36.20	36.80	37.50
Maximum Power Current-I _{MPP} (A)	4.85	4.90	4.95
Open Circuit Voltage-V _{oc} (V)	43.90	44.20	44.50
Short Circuit Current-I _{sc} (A)	5.30	5.35	5.40
Encapsulated Cell Efficiency η_c (%)	16.40	16.80	17.30
Module Efficiency ŋm (%)	13.70	14.10	14.50

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

General Data

Cell Type Glass Frame Junction Box 125 x 125mm Monocrystalline silicon, 72pcs in series High Transmission, Low Iron, Tempered Glass 3.2mm Anodized Aluminum, 12 Draining Holes in Frame TÜV Certified, MC4 connector

Temperature Ratings

Nominal Operating Cell Temperature (NOCT)	47°C (±2°C)
Temperature Coefficient of P _{MPP}	- 0.45%/°C
Temperature Coefficient of V _{oc}	- 0.35%/°C
Temperature Coefficient of I _{sc}	0.05%/°C

Mechanical and Packing Config	uration	Maximum Ratings		Warranty
Dimensions (A x B X C)	1581 x 809 x 40mm	Operating Temperature	-40 ~ +85°C	5 years manufacturing warranty
Installation Hole Dimensions (E x F) 948 x 754mm	Storage Temperature	-40 ~ +85°C	10 years warranty, 90% power output
Cable length (G)	1000mm	Maximum System Voltage	1000VDC	25 years warranty, 80% power output
Weight	15.6kg	Number of Bypass Diodes	3pcs	
Packing Configuration	23pcs/carton	Maximum Series Fuse	9A	
Quantity/Pallet	1carton/pallet			
Loading Capacity	644pcs/40ft, 276pcs/20ft			



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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