



Supplier Name: Changzhou Trina Solar Energy Co., Ltd

STRENGTHS

- Tolerance \pm 3%
- High Transmission: Low Iron Tempered Glass
- 3 Bypass Diode Integrated
- Plug & Play Connectors

WARRANTY

- Product: 2 years
- Production: 90%-----10 years
80%-----25 years

CERTIFICATIONS



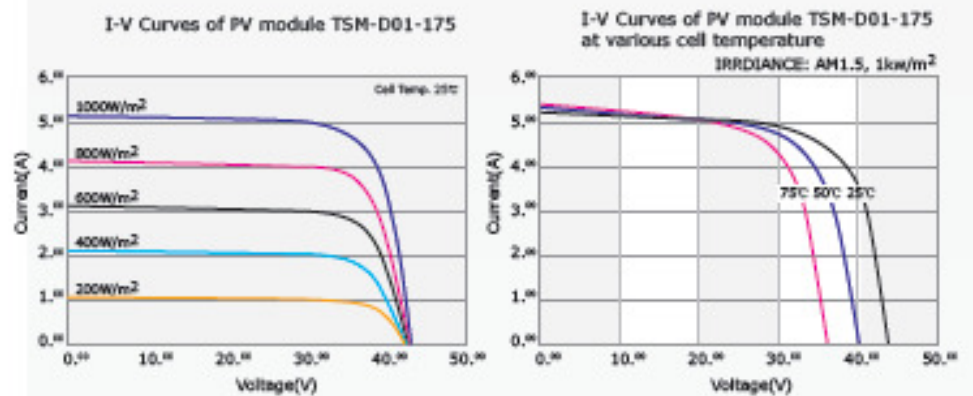
Suitable for On Grid and Off Grid Systems

Module Type		TSM-170D	TSM-180D
Parameters			
TYPICAL ELECTRICAL CHARACTERISTICS			
Nominal Power	Watt(Peak)	170	180
Power Tolerance		+ 3 %	- 3 %
Maximum Power Voltage	U_{mpp}	35.80	36.80
Maximum power current	I_{mpp}	4.76	4.90
Open circuit voltage	V_{oc}	43.60	44.20
Short circuit current	I_{sc}	5.25	5.35
Max-System Voltage	VDC	1000	
Cell Efficiency	η_c	15.90%	16.80%
Module Efficiency		13.3%	14.1%
Number, Type and Arrangement of Cells		72pcs. Mono-crystalline Silicon (6 X12)	
Size of cells (wide and high)		125mm x 125mm	
Cable type, diameter and length		4mm ² , TÜV certified, 900mm	
Type of connector		Compatible Type III	
No. of bypass diodes		3pcs	
Max. Series Fuse	A	7	
Temperature coefficient of P_{mpp}		-0.45%/ °C	
Temperature coefficient of I_{sc}		0.05%/ °C	
Temperature coefficient of U_{oc}		-0.35%/ °C	
NOCT (Nominal operating cell temperature)		47□(± 2 □)	
MECHANICAL CHARACTERISTICS			
Dimensions (lengths, width and height)		1581 mm x 809 x mm	
Weight of module		15.6kg	
Frame (type, material and thickness)		Aluminum Alloy, 40mm, made in China	
No. of Draining Holes in Frame		4	
Packing Configuration		2 in 1 or 23 in 1	
Front glass, type and thickness		High Transmis, Low Iron, Tempered Glass 3.2mm.	
Packing Configuration		2 in 1 or 23 in 1	
Quantity/Pallet		38 pcs/pallet or 23 pcs/pallet	
ABSOLUTE RATINGS			
Dielectric Insulation Voltage	(VDC)	3000 max.	
Operating Temperature	(°C)	-40~+85	
Storage Temperature	(°C)	-40~+85	

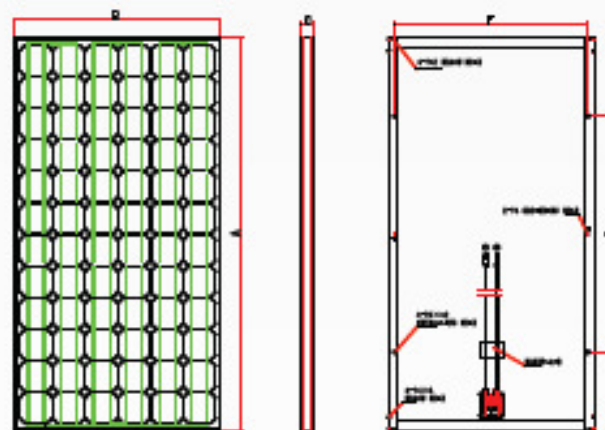
TRINA TSM-D01, 160W to 180W

Photovoltaic Solar Module

I-V Curves



Dimensions



Dimensions (mm) A*B*C	1581*809*40
Installation Hole (mm) E*F	948*754
Cable Length (mm) G	900
Diameter of the Hole (mm)	Ø9x12
Test Conditions	STC:AM=1.5, 1000W/m ² , Cells Temperature 25°C

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*The company is not responsible for potential typing errors.