



Solar module

Trina Solar TSM-D Series

- **Integrated product line**
from ingots, wafers cells, to modules
- **Certified**
IEC 61215 / Schutzklasse II in accordance with TÜV Rheinland
- **High power warranty**
25 years power warranty
2 years product warranty
- **Easy assembly**
preinstalled plug-connections
- **Monocrystalline cells**
smart design

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Trina Solar Energy is one of the leading players in China's solar energy sector. Trina Solar Energy has highly integrated product lines, from ingots, wafers, to modules.

The Trina Solar Energy modules are certified by TÜV Rheinland in accordance with IEC 61215 and Safety Class II.

The power rating of the modules is checked regularly from our side.



Physical data	
Dimensions/weight	1581 x 809 x 40 mm / 15,6 kg
Cell	72 monocrystalline cells 125 x 125 mm
Junction box	IP 65 with MC Typ 3 compatible 2 x 0.9 m cable 1 x 4

Ambient conditions	
Max. permissible module temperature	-40 to +85 °C
Max. permissible system voltage	715 V
Area compression	2400 N/m ²
Hailstones/Hailstorm	Ø 25 mm / v=23 m/s
Humidity at 85 °C	85 % relative

Temperature coefficients	
a [I_{sc}]	+ 0,09 % / °C
β [V_{oc}]	- 0,34 % / °C
γ [P_{mpp}]	- 0,37 % / °C

Electrical data (STC) (1000 W/m ² , 25 °C, AM1.5)	175Wp TSM-175D	Tolerance ±5
Short circuit current I_K (A)	4,97	
Open circuit voltage U_L (V)	44,6	
Power circuit MPP I_{mpp} (A)	4,69	
Power voltage MPP U_{mpp} (V)	37,3	
Modul efficiency	13,7 %	
Power output (W/m ²)	136,82	7,31 m ² /kWp