

180W/175W

Monocrystalline Silicon Solar Panel

HIGH STABILITY HIGH RELIABILITY LOW DEGRADATION



Over 30 years' technology R&D of solar cell and panel.

High conversion efficiency ensures the high power output.

1589×806×46mm design is suitable for the resisting of heavy snow load, hailstone, typhoon, and other extreme weather conditions.

Quality and Safety

25 years limited warranty ISO9001 certified factories Certified to UL1703 by the Underwriters Laboratories

Warranty

Free from defects in materials and workmanship for 5 years 10 years on 90% of the minimum power output 25 years on 80% of the minimum power output













 This publication summaries product warranty and specifications which are subject to change without notice.





Typical Electronic Characteristics

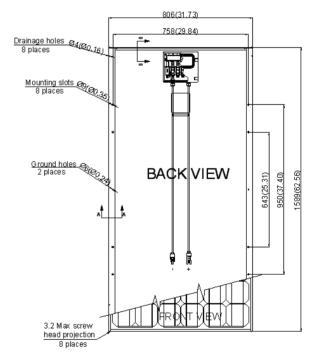
Characteristics	Unit	TD180M5	TD175M5
Rated output (Pmax)	W	180	175
Open circuit voltage (Voc)	V	44.60	44.40
Short circuit current (Isc)	Α	5.42	5.36
MPP voltage (Vmpp)	V	35.40	35.20
MPP current (Impp)	Α	5.08	4.97
Module efficiency (η)	%	14.1	13.7
Filling factor (FF)	%	74.5	73.5
Max. system voltage	V	600	600
Operating temperature	°C (°F)	-40 — +85	(-40 — +185)
Max. series fuse rating	Α	12	
Power tolerance	%	± 3*	

Temperature Coefficient		
NOCT	44±2 °C	
γT (Pmpp)	-0.4777 %/K	
βT (Voc)	-0.3482 %/K	
αT (Isc)	0.0585 %/K	

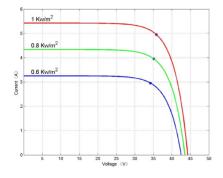
Tested under STC (Standard Testing Conditions: Irradiation 1000W/m², Spectrum AM1.5, Cell temperature: 25 °C)

Mechanical Characteristics

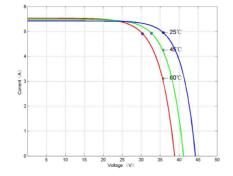
1589×806×46mm (62.56×31.73×1.81inch)
Clear anodised aluminium alloy type 6063T5. Silver Universal Frame
72 cells (125×125mm, 5inch) configured geometrically for a 6×12 matrix connected in series.
IP65 rated
4.0 mm² 12AWG cable with weatherproof connectors. Cable lengths 1000mm(39.37inch).
3 Schottky bypass diodes -one for every 24 cells -
Front: High transmission 3.2mm(1/8inch) tempered glass Rear: White polyester; encapsulant: EVA
16.0kgs (35.2lbs.)

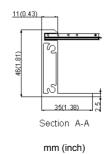


IV CURVE (Different radiation)



IV CURVE (Different temperature)







^{*:} Tolerance can be adjusted according to requirements of customers.