

210W/200W/190W/180W

Polycrystalline 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.

1482×992×35mm design is suitable for residential and commercial on-grid system, especially tracking system.

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

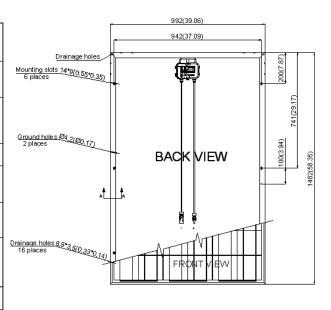
Characteristics	Unit	TD210P6	TD200P6	TD190P6	TD180P6
Rated output (Pmax)	W	210	200	190	180
Open circuit voltage (Voc)	V	33.60	33.20	32.80	32.50
Short circuit current (Isc)	Α	8.39	8.14	7.89	7.64
MPP voltage (Vmpp)	V	26.60	26.40	26.20	26.00
MPP current (Impp)	Α	7.89	7.57	7.25	6.92
Module efficiency (η)	%	14.3	13.6	12.9	12.2
Filling factor (FF)	%	74.5	74.0	73.4	72.5
Max. system voltage	V	600	600	600	600
Operating temperature	°C (°F)	-40 — +85 (-40 — +185)			
Max. series fuse rating	Α	16			
Power tolerance	%	± 3*			

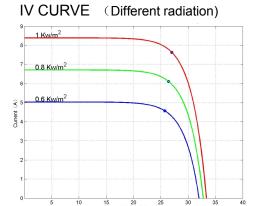
Temperature Coefficient				
NOCT	44±2 °C			
γT (Pmpp)	-0.3583 %/K			
βT (Voc)	-0.2612 %/K			
αT (Isc)	0.0585 %/K			

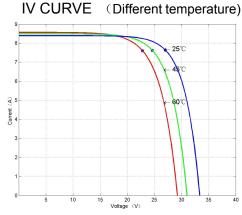
 $Tested\ under\ STC\ (Standard\ Testing\ Conditions:\ Irradiation\ 1000W/m^2,\ Spectrum\ AM1.5,\ Cell\ temperature:\ 25\ ^{\circ}C)$

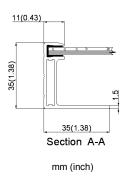
Mechanical Characteristics

Panel total dimension (L×W×T)	1482×992×35mm (58.35×39.06×1.38 inch)
Frame	Clear anodised aluminium alloy type 6063T5. Silver Universal Frame
Solar cell	54 cells (156mm×156mm, 6 inch) configured geometrically for a 6×9 matrix connected in series.
Junction box	IP65 rated
Output cables	4.0 mm ² 12AWG cable with weatherproof connectors. Cable lengths 1000mm(39.37inch).
Diodes	6 Schottky bypass diodes -two for every 18 cells -
Construction	Front: High transmission 3.2mm(1/8inch) tempered glass Rear: White polyester; encapsulant: EVA
Weight	17.0kgs (37.4lbs.)











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