YUNNAN TIANDA

PHOTOVOLTAIC CO., LTD.

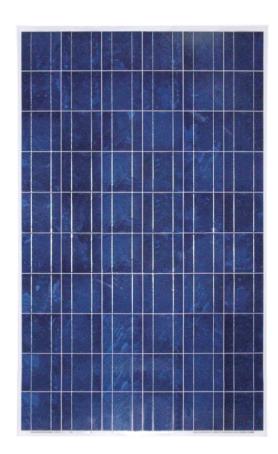
240W/235W/230W 225W/220W/215W

Polycrystalline Silicon Solar Module



HIGH STABILITY HIGH RELIABILITY LOW DEGRADATION

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



1640×992×40mm design with 4 mm high transmission and tempered glass is suitable for the resisting of heavy snow load, hailstone, typhoon, and other extreme weather conditions

Module conversion efficiency is up to 14.8%, minimizing installation costs and maximizing the output of your system.

Our 60 cells solar module is designed for both ground and roof application, especially for large roof.

Quality and Safety

25 years limited warranty
ISO9001 & ISO14001 certified factories
IEC61215:2005(2nd Ed.) certification from TUV Rheinland Germany
IEC61730:2004 certification from TUV Rheinland Germany

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











Headquarters: No.2, Hongwai Road, Kunming National Economic-Tech Development Zone, Kunming, Yunnan, 650217. P.R.China

Tel: 86-871-5336344 Fax: 86-871-5330757

Marketing Department: South Wing, 4/F, Building B, No.1418, Middle of Haiyuan Road, Kunming National Hi-Tech Industrial Development Zone, Kunming, Yunnan, 650106 P.R.China Tel: 86-871-8328818 Fax: 86-871-8328989

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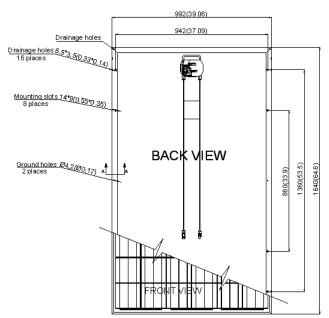
Typical Electronic Characteristics

Characteristics	TD240P6	TD235P6	TD230P6	TD225P6	TD220P6	TD215P6		
Rated output Pm(W)	240	235	230	225	220	215		
Open circuit voltage Voc (V)	37.3	37	37	36.50	36.50	36.0	T	0
Short circuit current Isc (A)	8.6	8.54	8.4	8.28	8.15	8.10	Temperature	Coemicient
MPP voltage Vmpp (V)	29.6	29.5	29.5	29.50	29.00	29.00	NOCT	44±2 °C
MPP current Impp (A)	8.11	7.97	7.8	7.63	7.59	7.41	11001	++ -2
Module efficiency (%)	14.8	14.4	14.1	13.8	13.5	13.2	γT (Pmpp)	-0.3583 %/K
Filling factor FF (%)	74.8	74.4	74	74.5	74.0	73.7		
Max. system voltage (V)	1000	1000	1000	1000	1000	1000	βT (Voc)	-0.2612 %/K
Operating temperature (°C)	-40 — +85						p1 (voc)	0.2012 /0/10
Max. series fuse rating (A)	16						αT (Isc)	0.0585 %/K
Power tolerance (V)	± 3*							
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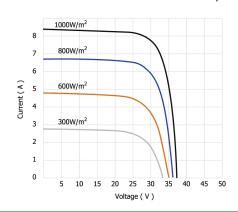
Tested under STC (Standard Testing Conditions: Irradiation 1000W/m², Spectrum AM1.5, Cell temperature: 25 °C)

Mechanical Characteristics

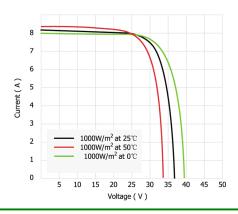
Module total dimension (L×W×T)	1640×992×40mm				
Frame	Clear anodized aluminum alloy type 6063T5. Silver Universal Frame				
Solar cell	60 cells (156×156mm) configured geometrically for a 6×10 matrix connected in series.				
Junction box	IP65 rated				
Output cables	4.0 mm ² 12AWG cable with weatherproof connectors. Cable lengths 1000mm (39.37inch).				
Diodes	3 Schottky bypass diodes -one for every 20 cells -				
Construction	Front: High transmission 3.2 mm tempered glass Rear: White polyester; encapsulant: EVA				
Weight	19kgs				

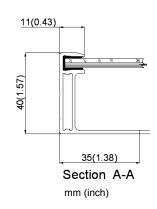


IV CURVE (Different radiation)



IV CURVE (Different temperature)





Version: YNTDDSEU100720
 The Data Sheet is available for download from www.ynsolar.cn

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

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