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EnergyPal

Solar Panel Guide Specification Data Sheet

Tapan Solar Energy Pvt. Ltd.

DS 300-315

DS 310

Also available on the web at
EnergyPal.com/tapan-solar-energy-pvt-ltd-solar-panels/ds-310

Solar Photovoltaic Modules

TECHNICAL DATA

Module Type	DS200(12V)	DS200(24V)	DS250	DS300	DS305	DS310	DS315
Peak Power Watts (Pmax)	200	200	250	300	305	310	315
Maximum Power Voltage (Vmp)	18.03	36.21	30.20	36.20	36.30	36.40	36.50
Maximum Power Current (Imp)	11.1	5.53	8.30	8.30	8.41	8.52	8.64
Open-circuit Voltage (Voc)	22.32	43.65	37.20	44.60	44.80	44.90	45.00
Short-circuit Current (Isc) (A)	11.94	6.08	8.87	8.87	8.97	9.08	9.10
Module Efficiency STC (%)	15.39	15.39	15.48	15.60	15.90	16.10	16.25
Operating Temperature (°C)	-40°C+85°C						
Maximum system Voltage	1000V DC (IEC)						
Maximum Series Fuse Rating	15A						

Temperature Characteristics (TC) and Permission Operating Conditions

Specification	Data
Tc of Open Circuit Voltage (B)	-0.35 ± 0.01% / °C
Tc of Short Circuit Current (a)	0.50 ± 0.02% / °C
Tc Power (Y)	-0.04 ± 0.02% / °C
Maximum System Voltage	1000 V (TUV)
NOCT	45°C ± 2°C
Temperature Range	-40°C to 85°C
Efficiency Reduction at 200W/m2, 25°C	>5%
Maximum Reserve Current (A)	12.5

Mechinal Data

Specification	Data		
Cell Type	Multi crystalline 6"		
Cell Arrangement	72Cells (12x6)	60Cells (6x10)	72Cells (12x6)
Dimensions	1320*982*34*	1640*990*42*	1960*992*42*
Weight	12.0Kgs.	18.5Kgs.	22.0Kgs.
Mounting Hole to Hole Distance (mm)	600	841	1155
Front Cover	3.2mm ARC Glass		
Frame Material	Anodized Aluminum Alloy		
Junction Box	IP 65 OR IP 67		IP 65 OR IP 68
Cables	4mm ² (IEC) / 4mm ² & 12 AWG 1000V (1000V UL) 1000mm		
By Pass Diodes	3 Pcs.		
40 Hq Container	728 Pcs.		572 Pcs.
Product Warranty	5 Years		
Performance Guaranteed	Guarantee Power Output of 90% for 10 years and 80% for 25 years		

Subject to errors and technical modifications within the scope of product improvement.



Off-Grid / On-Grid Application

- Designed for high area efficiency ideally suited for roof-top and ground-mounted applications.



Highly Reliable Due to Stringent Quality Control

- 100% EL Tested Before and after lamination



High Durability ensured

- Higher output of module power by reducing cell to module power loss.



Excellent Module Efficiency

- up to 16.4%



Positive Power Tolerance

- Positive power output tolerance guaranteed ensuring faster ROI



10 Yrs Product Warranty

25 Yrs Performance Warranty



Certifications

- IEC 61215, IEC 61730-1P2, ISO 9001, MNRE