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Solar Panel Guide Specification Data Sheet

Tapan Solar Energy Pvt. Ltd.

DS 10

DS10

Also available on the web at
EnergyPal.com/tapan-solar-energy-pvt-ltd-solar-panels/ds10

Solar Photovoltaic Modules

TECHNICAL DATA

Module Type	DS10	DS20	DS40	DS50	DS60	DS75	DS80	DS100	DS120	DS125	DS130	DS150
Peak Power Watts (Pmax)	10	20	40	50	60	75	80	100	120	125	130	150
Maximum Power Voltage (Vmp)	17.85	17.15	17.84	17.89	18.04	17.99	18.09	17.99	17.79	17.90	17.99	17.85
Maximum Power Current (Imp)	0.62	1.18	2.25	2.80	3.33	4.17	4.43	5.57	6.75	6.99	7.24	8.41
Open-circuit Voltage (Voc)	21.65	21.44	21.95	21.77	21.66	22.12	22.24	21.84	21.58	21.65	21.80	22.58
Short-circuit Current (Isc) (A)	0.69	1.27	2.44	3.04	3.67	4.49	4.76	6.11	7.36	7.60	7.79	8.70
Module Efficiency STC (%)	9.24	12.25	13.07	13.55	14.21	14.74	15.72	13.67	14.20	14.20	15.39	15.19
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

Mechinal Data

Specification	Data											
Cell Arrangement	36Cells (9x4)											
Dimensions : Length (mm)	305	460	460	555	635	765	765	1100	1155	1185	1485	
Dimensions : Width (mm)	335	355	666	665	665	665	665	665	665	665	665	
Dimensions : Height (mm)	18	18	34	34	34	34	34	34	34	34	34	
Weight	1.4Kg	2.8Kg	3.8Kg	4.6Kg	5.3Kg	6.8Kg	6.8Kg	8.0Kg	10.0Kg	10.0Kg	10.6Kg	
Mounting Hole to Hole Distance (mm)	NA		280	220	300	500			600			
Front Cover	3.2mm ARC Glass											
Frame Material	Anodized Aluminum Alloy											
Junction Box	IP 65 OR IP 67											
Product Warranty	5 Years											

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



Applications



Solar Street Light



Solar Lantern



Solar Traffic Sings



Solar Water Pumps



Green Telecom Towers



Solar Home Lighting



Rural Electrification



Electric Vehicle Charging Stations