

SOLAR PHOTOVOLTAIC MODULE

Aditi Solar is a manufacturer of Solar Photovoltaic Modules. Aditi Solar ensures customers on SPV Modules Quality, durability and performance with 25 years Limited warranty.



► Performance

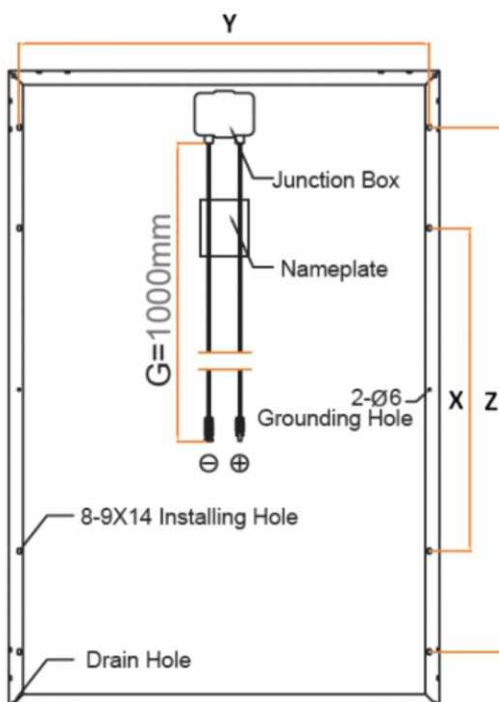
- High efficiency, Mono or Multi crystalline solar cells with high transmission textured glass delivering a module series efficiency up to 14.3%, minimising installation cost and maximising the kWh output of system.

► Features

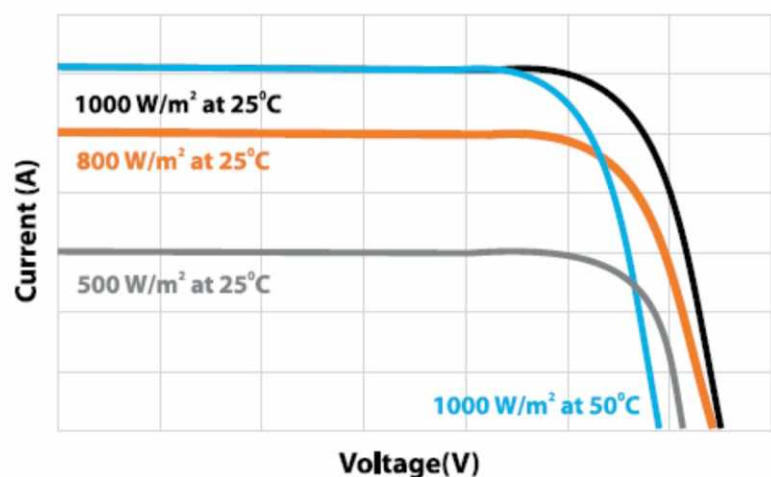
- High quality, low iron, high transmittivity, toughened glass to ensure high light absorption
- Tin copper interconnectors increase solderability and conductivity. This also results in maximum efficiency from the Module
- Premium quality encapsulation material ensuring high quality lamination leading to better performance
- Polyester tedlar used as a back sheet prevents from moisture and mechanical damage
- Weather resistant frame - seal helps preventing water seepage and protects the system from humidity
- Anodized Aluminum frame gives the system strong and corrosion-free structural support



Module Drawing



I-V Curve



Technical Specifications of Solar PV Modules

Module Description	ELECTRICAL						MECHANICAL			
	Pmax (Wp)	Vmax (V)	Imax (A)	Voc (V)	Isc (A)	Efficiency (%)	Module Size(mm)	Weight (Kg)	Mounting Holes	
									Length	Width
6V, 3Wp	3	8.70	0.34	10.60	0.37	8.3	195X185X22	0.4	115	162
6V, 5Wp	5	8.70	0.57	10.60	0.61	9.8	275X185X22	0.6	165	162
12V, 5Wp	5	17.50	0.29	21.40	0.31	8.9	305X185X22	0.6	180	162
12V, 8Wp	8	17.50	0.46	21.40	0.49	9.5	245X345X22	1.0	145	322
12V, 10Wp	10	17.50	0.57	21.40	0.61	10.2	285X345X22	1.1	170	322
12V, 12Wp	12	17.50	0.69	21.40	0.73	10.7	325X345X22	1.3	195	322
12V, 18Wp	18	17.60	1.02	21.50	1.09	10.3	505X345X22	2.0	300	322
12V, 20Wp	20	17.60	1.14	21.50	1.22	11.5	505X345X22	2.0	300	322
12V, 25Wp	25	17.60	1.42	21.50	1.52	12.0	605X345X34	2.4	360	322
12V, 37Wp	37	17.60	2.10	21.50	2.25	12.0	465X665X34	3.5	275	620
12V, 45Wp	45	17.60	2.56	21.50	2.74	12.4	545X665X34	4.1	325	620
12V, 50Wp	50	17.60	2.84	21.50	3.04	12.6	595X665X34	4.5	355	620
12V, 60Wp	60	17.60	3.41	21.50	3.65	12.8	705X665X34	5.3	420	620
12V, 75Wp	75	17.60	4.26	21.50	4.56	13.0	865X665X34	6.5	515	620
12V, 100Wp	100	17.60	5.68	21.50	6.08	13.1	1145X665X34	8.6	685	620
12V, 125Wp	125	17.60	7.10	21.50	7.60	13.9	1355X665X42	10.6	815	625
12V, 135Wp	135	17.80	7.58	21.60	8.12	13.6	1495X665X42	11.7	900	625
16V, 180Wp	180	23.80	7.56	28.80	8.09	13.6	1335X990X42	15.5	800	950
18V, 210Wp	210	27.20	7.72	32.40	8.26	14.2	1495X990X42	17.4	900	950
20V, 230Wp	230	29.80	7.72	36.00	8.26	14.0	1660X990X42	19.3	995	950
24V, 280Wp	280	35.80	7.82	43.20	8.37	14.3	1975X990X50	26.8	1185	950

Tolerance: All Electrical Parameters vary by $\pm 3\%$

STC: Irradiance 1000 W/m², Module Temperature 25°C, Spectrum AM 1.5

NOCT	TEMPERATURE COEFFICIENTS		
	Pmax	Voc	Isc
47 \pm 2°C	-0.40 % /K	-0.33 % /K	+0.06 % /K

Maximum system Voltage [VDC] : 600V for 06V,03Wp upto 12V, 100Wp
: 1000V for 12V,125Wp upto 24V, 280Wp

Operating Module Temperature[°C] : -40°C to +85°C

Warranty : 25 years Performance warranty* as below
: 90% of the rated power is guaranteed for a period of 10 years and
: 80% of the rated power is guaranteed for a period of 25 years

Note: Due to continuous upgradation of products, specifications are subjected to change without prior notifications.



Aditi Solar Private Limited

An ISO 9001:2008 (QMS) & 14001:2004 (EMS) company

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