



Solar Panels

Solar panel harvest a sunlight and actively convert it into electricity.

Solar Cells or photovoltaic cells are arranged in a grid-like pattern on the surface of the solar panel. These solar voltaic cells collect sunlight during the daylight hours ,

Sl.No.	Module Type	Pmax (Wp)	Vmax (V)	Imax (A)	Voc (V)	Isc (A)	Module Size (mm)	Weight (kg)	Efficiency	Mounting Holes	
										Length	Width
1	ASP-06-03	3	8.70	0.34	10.60	0.37	195X185X22	0.5	8.3	115	162
2	ASP-06-05	5	8.70	0.57	10.60	0.62	280X180X22	0.6	9.9	165	162
3	ASP-12-05	5	17.50	0.29	21.40	0.31	280X250X22	0.9	7.1	165	227
4	ASP-12-08	8	17.50	0.46	21.40	0.49	290X345X22	1.0	7.9	190	315
5	ASP-12-10	10	17.50	0.57	21.40	0.62	290X345X22	1.2	9.9	190	315
6	ASP-12-12	12	17.50	0.69	21.40	0.74	290X345X22	1.3	11.9	200	316
7	ASP-12-20	20	17.60	1.14	21.50	1.23	555X340X22	2.1	10.5	300	316
8	ASP-12-20	25	17.60	1.42	21.50	1.53	555X340X34	2.2	13.2	300	316
9	ASP-12-25	30	17.60	1.70	21.50	1.84	400X665X34	2.2	11.2	296	635
10	ASP-12-37	37	17.60	2.10	21.50	2.27	465X665X34	4.3	12.0	296	635
11	ASP-12-40	40	17.60	2.27	21.50	2.45	465X665X34	4.4	12.9	296	635
12	ASP-12-45	45	17.60	2.56	21.50	2.76	665X530X34	4.4	12.9	452	635
13	ASP-12-50	50	17.60	2.84	21.50	3.07	665X530X34	5.5	14.2	452	635
14	ASP-12-60	60	17.60	3.41	21.50	3.68	665X665X34	5.8	13.9	452	635
15	ASP-12-74	74	17.60	4.20	21.50	4.54	805X665X34	6.6	14.0	500	635
16	ASP-12-100	100	17.60	5.68	21.50	6.14	1055X665X34	9.4	14.2	642	635
17	ASP-12-120	120	17.60	6.82	21.50	7.36	1205X665X34	11.2	14.9	642	635

18	ASP-12-125	125	17.60	7.10	21.50	7.67	1255X665X34	11.4	13.9	880	635
19	ASP-12-135	135	18.00	7.50	21.60	8.10	1475X665X34	12.1	13.7	880	635
20	ASP-12-145	145	18.00	8.06	21.60	8.70	1475X665X34	12.1	14.7	880	635
21	ASP-12-150	150	18.00	8.33	21.60	9.00	1475X665X34	12.8	15.3	880	635
22	ASP-72C-180	180	36.72	4.90	43.20	5.29	1357X992X42	16.8	13.4	880	956
23	ASP-72C-200	200	36.72	5.45	43.20	5.88	1357X992X42	17.0	13.4	1100	956
24	ASP-60C-200	200	28.80	6.94	36.00	7.50	1357X992X42	16.2	14.9	1100	956
25	ASP-72C-220	220	36.72	5.99	43.20	6.47	1515X990X42	19.4	14.6	1100	960
26	ASP-60C-220	220	28.80	7.64	36.00	8.25	1515X990X42	18.5	14.6	1100	960
27	ASP-72C-225	225	36.72	6.13	43.20	6.62	1515X990X42	20.2	15.0	1100	960
28	ASP-60C-225	225	28.80	7.81	36.00	8.44	1515X990X42	19.4	15.0	1100	960
29	ASP-72C-250	250	36.72	6.81	43.20	7.35	1651X992X42	23.4	15.2	1100	956
30	ASP-60C-250	250	28.80	8.68	36.00	9.38	1651X992X42	22.4	15.2	1100	956
31	ASP-72C-260	260	36.72	6.81	43.20	7.35	1977X992X42	31.3	13.2	1340	956
32	ASP-72C-275	275	36.72	7.49	43.20	8.09	1977X992X42	31.3	14.0	1340	956
33	ASP-72C-280	280	36.72	7.63	43.20	8.24	1977X992X42	31.3	14.2	1340	956
34	ASP-72C-285	285	36.72	7.76	43.20	8.38	1977X992X42	31.3	14.5	1340	956
35	ASP-72C-300	300	36.72	8.17	43.20	8.82	1977X992X42	31.3	15.3	1340	956

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

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

TEMPERATURE COEFFICIENTS

NOCT	Tc of Power	Tc of Open circuit Voltage	Tc of Short circuit Current
47 $\pm$ 2oC	-0.40 % /K	-0.33 % /K	+0.06 % /K

Maximum system Voltage [VDC] : 600V for ASP-06-03 upto ASP-12-100
: 1000V for ASP-12-125 upto ASP-72C-280
Operating Module Temperature[oC] : -40oC to +85oC