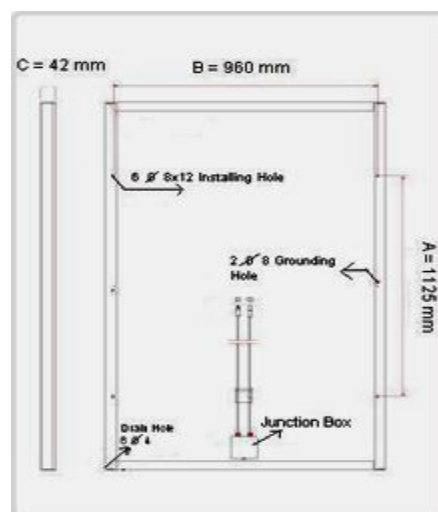
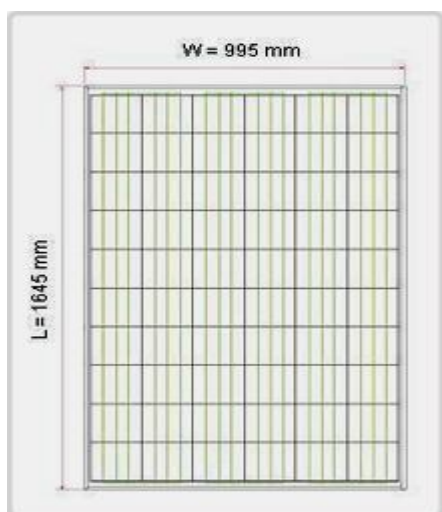


Solar Modules



Modern Solar is proud to announce the ENERGIA Series of the Solar Panels.

Modern modules are made with high efficiency multi / mono crystalline solar cells (i.e. 15% to 17%). These cells are encapsulated between a low iron content high transitivity tempered glass and premium quality back sheet to provide efficient protection from the environmental conditions. The laminates are framed with strong, robust and anodized aluminum profile with multiple holes for ease of installation. The modules are fitted with 4-terminal Junction Box with 16A, 40V schottky bypass diodes (3 diodes) and plug in connectors. A solar panel (also solar module, photovoltaic module or photovoltaic panel) is a packaged, connected assembly of solar cells, also known as photovoltaic cells. The solar panel can be used as a component of a larger photovoltaic system to generate and supply electricity in commercial and residential applications. Because a single solar panel can produce only a limited amount of power, many installations contain several panels. A photovoltaic system typically includes an array of solar panels, an inverter, and sometimes a battery and interconnection wiring.



Solar Module Technical Specification

ENERGIA Family	Pmax	Vmax	Imax	Voc	Isc	F.F. (%)	STC	No. of cells	Cell Conf.	Cell Size (mm)	Module Size (mm) & Mounting Details			Weight (Kg)
											L X W	A	B	
280	280 WP	35.00	8.10	44.10	8.31	>70	Temp. - 25°, Irradiance - 1000 W/m² & A.M. - 1.5 G Spectrum	72	12 X 6	156 X 156	1955 X 995	1125	960	20.5
	275 WP	34.90	8.00	44.00	8.28	>70		72	12 X 6	156 X 156	1955 X 995	1125		
	270 WP	34.85	7.83	43.90	8.10	>70		72	12 X 6	156 X 156	1955 X 995	1125		
235	240 WP	30.40	7.89	37.20	8.37	>70		60	10 X 6	156 X 156	1645 X 995	1125	960	19.5
	235 WP	30.10	7.81	37.10	8.31	>70		60	10 X 6	156 X 156	1645 X 995	1125		
	230 WP	29.80	7.72	37.00	8.26	>70		60	10 X 6	156 X 156	1645 X 995	1125		
200	210 WP	26.25	8.10	33.10	8.37	>70		54	9 X 6	156 X 156	1485 X 995	600	960	17.6
	200 WP	25.95	7.70	32.90	8.00	>70		54	9 X 6	156 X 156	1485 X 995	600		
180	180 WP	24.00	7.60	30.20	8.10	>70		48	8 X 6	156 X 156	1325 X 995	600	960	16.4
	175 WP	23.70	7.73	29.80	8.00	>70		48	8 X 6	156 X 156	1325 X 995	600		
135	140 WP	17.50	8.10	22.00	8.40	>70		36	9 X 4	156 X 156	1485 X 665	600	638	11.3
	135 WP	17.30	7.90	22.00	8.20	>70		36	9 X 4	156 X 156	1485 X 665	600		
	130 WP	17.20	7.80	21.90	8.10	>70		36	9 X 4	156 X 156	1485 X 665	600		
80	100 wp	17.20	5.80	22.10	6.10	>70		36	9 X 4	156 X 113	1095 X 665	600	638	8.5
	85 WP	17.30	4.94	22.00	5.17	>70		36	9 X 4	156 X 104	1025 X 665	600		8.0
	80 WP	17.20	4.71	21.90	4.90	>70		36	9 X 4	156 X 104	895 X 665	600		7.0
	75 WP	17.00	4.50	21.80	4.75	>70		36	9 X 4	156 X 104	895 X 665	600		
40	50 WP	17.20	3.10	21.60	3.40	>70		36	9 X 4	156 X 60	615 X 665	430	528	5.0
	45 WP	17.75	2.60	21.91	2.71	>70		36	9 X 4	156 X 52	555 X 665	430		4.6
	40 WP	17.15	2.30	21.90	2.43	>70		36	9 X 4	156 X 52	495 X 665	410	468	4.1
	35 WP	16.95	2.20	21.70	2.35	>70		36	9 X 4	156 X 52	495 X 665	410		
20	20 WP	17.73	1.13	21.95	1.22	>70		36	9 X 4	156 X 24	325 X 665	410	297	2.8
	18WP	17.00	1.10	21.20	1.20	>70		36	9 X 4	156 X 24	325 X 665	410		
Specifications are subject to change without notice. MSPL reserves the rights of final interpretation & revision on this data datasheet.														