



... a greener tomorrow, today



BAYAT ENERGY



FLEXIBLE & BIPV SOLAR PANELS



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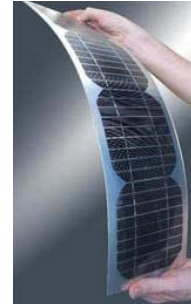
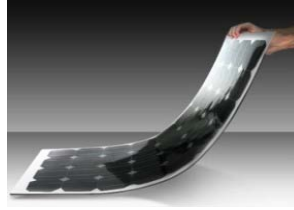
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Providing clean energy efficient solutions



FLEXIBLE SOLAR PANEL



Remark:

Tolerance wattage: $\pm 5\%$ (P>40W); $\pm 10\%$ (P<40W);

Operating temperature: $-40^{\circ}\text{C} \sim +8^{\circ}\text{C}$

Temperature coefficient of $V_m(\%)$: $-0.38/^{\circ}\text{C}$

Temperature coefficient of $I_{sc}(\%)$: $-(0.065 \pm 0.015)^{\circ}\text{C}$

Voltage Standoff: 600V

Insulation: $\geq 100\text{Mohm}$

Standard measuring conditions: $1000\text{W}/\text{m}^2$, AM1.5, 25°C ,

Warranty : With a 5 year limited warranty on power output which power output more than 90% of the Minimum Peak Power as specified within 2 (two) years from date of delivery and power output more than 80% of the Minimum Peak Power as specified within (5) years from the date of delivery , And 2 year warranty on workmanship

Application: Waterpump; Camping

limited mobile/TV; Domestic/Field: power tool charging, electric fence power

How it works: Put simply, the solar panel charges a 12V battery* (protected from being overcharged by a Charge Controller**) during daylight hours. The power in the battery is available for use at any time to power appliances – directly if powering 12V appliances or through an inverter†† if powering 240V appliances. The system will work even in overcast weather conditions, both in summer and winter.

Temperature coefficient of $P_m(\%)$: $-(0.5 \pm 0.05)^{\circ}\text{C}$

Temperature coefficient of $V_{oc}(\%)$: $-(2.23 \pm 0.1) \text{mv}/^{\circ}\text{C}$

Temperature coefficient of $I_m(\%)$: $+0.1/^{\circ}\text{C}$

Junction Box Type: PV Junction Box Or GY-Box-5C(TUV)

FF(%) : 76%

Model number	Max Power	Unit Size	Unit Weight	Max Operating	Open Circuit Voltage	Max Operating	Short Circuit Current	Packing	Gross Weight	Max System Voltage
	P_m	L * W * H		Voltage		Current				
	(Wp)	(mm)	(Kgs)	$V_{pm}(V)$		I_{pm}				
BS06-FA	6W	525*160*2.5	0.4	18	21.6	0.34	0.36	10	6	600
BS15-FA	15W	800*300*2.5	0.9	18	21.6	0.84	0.9	10	13	600
BS30-FA	30W	850*400*2.5	1.3	18	21.6	1.67	1.8	10	17	600
BS40-FA	40W	1080*400*2.5	1.8	18	21.6	2.23	2.4	10	23	600
BS50-FA	50W	920*450*2.5	2.4	18	21.6	2.78	3.16	5	16	600
BS60-FA	60W	1080*450*2.5	3	18	21.6	3.34	3.74	5	19	600
BS70-FA	70W	1000*580*2.5	4	18	21.6	3.89	4.35	5	24	600
BS80-FA	80W	1250*580*2.5	5	18	21.6	4.45	5.34	5	29	600
BS90-FA	90W	1250*580*2.5	5	18	21.6	4.73	5.67	5	29	600
BS100-FA	105W	1000*850*2.5	6.3	18	21.6	5.58	6.53	5	35	600
BS110-FA	105W	1100*850*2.5	7	18	21.6	6.12	7.33	5	39	600
BS120-FA	120W	1160*850*2.5	7.5	18	21.6	6.67	7.76	2	18	600
BS130-FA	130W	1250*850*2.5	8	18	21.6	7.23	8.03	2	19	600
BS140-FA	140W	1250*850*2.5	8	18	21.6	7.78	8.56	2	19	600



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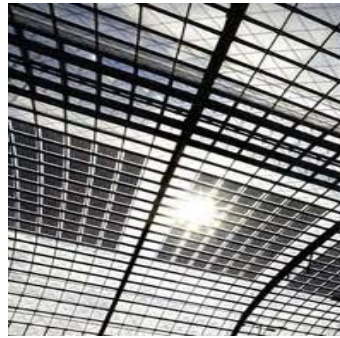


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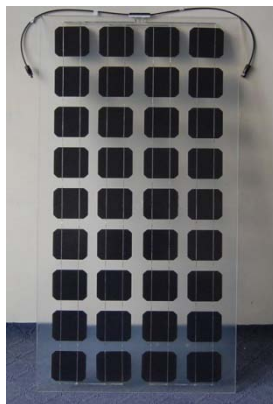


Providing clean energy efficient solutions



Building-Integrated Photo Voltaic (BIPV) are photovoltaic systems which are built into a building, rather than being added on at a later date. These systems have a number of advantages over photovoltaic modules which are attached to a building after it has been constructed. Photovoltaic systems have solar cells which convert the energy of the sun into electricity. The electricity can be used to power a building, or it can be fed into the electrical grid as a source of renewable and Earth-friendly power.

The BIPV can be installed in place of regular building materials, thereby saving money on construction. For example, glass with specialized solar cells embedded in it can be used on the facade of a building instead of conventional glass or roofing can be made from BIPV.



Using BIPV is far more cost effective than building a structure and then adding photovoltaic arrays, because the BIPV are part of the initial construction outlay, and they replace conventional materials, instead of being installed over costly building materials. Using systems which are integrated into the building can also be more appealing from an aesthetic standpoint, since the systems can be designed to blend in with the building, adding to it architecturally instead of standing out like a sore thumb.

BIPV can also be utilized in a dual purpose way. For example, glass with solar cells will collect and convert the sun's energy, but it also shades a building, keeping rooms cooler and cutting down on the need to utilize a specialized cooling system.



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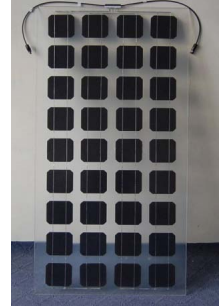




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