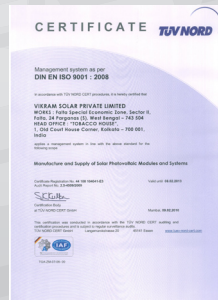




Vikram Solar is an internationally acclaimed enterprise which specializes in manufacturing of PV solar modules. Since our inception in 2006, we have gradually developed ourselves to become one of the key players among mono crystalline and multi crystalline photovoltaic solar module manufacturers. **Vikram Solar manufactures solar photovoltaic (PV) modules, mono crystalline and multi crystalline types, in a wide range from 3 Wp to 300 Wp.** As a part of our ongoing expansion plan we look forward to increase our production capacity to 100MW by 2011.

At Vikram Solar, providing complete satisfaction to customers is considered to be our first priority. Vikram solar offers best quality solar modules for sale. With **marketing offices spread across Asia, Europe, North America and Africa**, Vikram Solar is acknowledged as a one of the top solar module manufacturers in India and abroad. Besides we are also well-known for our innovation, technology, skill, and dedication in the solar industry.



**Our Trusted OEM Partners**



Type (ELDORA)	3	5	10	20	30	40	50	60	80	100	140	210	240	280																												
Product	<b>POLY-CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE</b>																																									
Maximum Power Pmax (W)	3	5	10	18	20	30	37	40	45	50	60	65	74	80	85	90	95	100	105	110	125	130	135	140	145	195	200	205	210	215	220	225	230	235	240	245	275	280	285	290	295	300
Maximum Power Voltage Vmax (V)	9.00	9.00	17.20	17.00	17.10	17.25	17.00	17.10	17.70	17.30	18.00	18.20	17.00	17.20	17.40	17.50	17.50	17.50	18.00	18.00	17.20	17.35	17.40	17.50	17.95	25.70	26.00	26.30	26.60	26.90	27.20	29.60	29.80	30.00	30.20	30.40	35.80	36.00	36.20	36.40	36.60	36.80
Maximum Power Current Imp (A)	0.34	0.56	0.60	1.06	1.18	1.75	2.25	2.35	2.55	2.90	3.35	3.60	4.45	4.75	4.90	5.20	5.50	5.75	5.85	6.12	7.30	7.50	7.80	8.00	8.10	7.60	7.70	7.80	7.90	8.00	8.10	7.70	7.80	7.90	8.00	8.10	7.70	7.80	7.90	8.00	8.10	8.20
Open Circuit Voltage (V)	10.62	10.64	21.70	21.70	21.90	21.70	21.80	21.90	21.90	21.95	22.00	22.10	21.80	21.90	22.00	21.90	21.90	21.90	22.00	22.00	21.80	21.90	22.00	22.10	22.20	32.80	32.80	33.00	33.00	33.20	33.20	36.80	37.00	37.20	37.40	37.60	44.60	44.80	45.00	45.20	45.40	45.60
Short Circuit Current (A)	0.36	0.61	0.68	1.13	1.25	1.90	2.40	2.45	2.70	3.20	3.45	3.70	4.79	4.90	5.19	5.40	5.75	6.00	6.40	6.45	8.00	8.10	8.20	8.35	8.45	8.00	8.10	8.20	8.30	8.40	8.50	8.30	8.40	8.50	8.60	8.70	8.35	8.45	8.50	8.60	8.70	8.80
Module Efficiency (%)	6.85	8.50	9.35	9.35	10.40	11.35	10.05	10.90	12.80	12.25	13.5	13.90	13.00	14.00	14.90	11.73	12.38	13.03	13.68	14.33	12.60	13.10	13.60	14.10	14.60	13.40	13.70	14.05	14.40	14.60	15.07	13.95	14.29	14.60	14.90	15.22	14.32	14.58	14.84	15.10	15.36	15.62
Module Dimensions (L X W X H) (± 1.5 mm)	226 X194 X22	302 X194 X22	302 X354 X22	549X350X22		396 X666 X22	552 X 666 X 34		666 X612 X34	702 X 666 X 34		855 X 666 X 34		1152 X 666 X 34				1012 X 982 X 36				1486 X 982 X 36				1639 X 982 X 36				1955X982X36												
Mounting Hole & Distance (mm), Grounding Hole (φ in mm)	6.9 & 165	6.9 & 165	6.9 & 165	6.9 & 300		6.9 & 200	6.9 & 300		6.9 & 300	6.9 & 300		6.9 & 300		6.9 & 600				6.9 & 506, 5.1				6.9 & 743, 5.1				6.9 & 819, 5.1				6.9 & 977, 5.1												
Weight (kgs)	0.5	0.7	1.4	2.5		3.2	4		4.60	5.3		6.8		8				10.90				15.50Kgs				17.25 Kgs				20.50 Kgs												
No. of Solar Cells	18	18	36	36		36	36		36	36		36		36				36				54				60				72												
Cables Characteristics	N.A.	N.A.	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.		N.A.				( 4 sq mm optional )				4 sq mm				4 sq mm				4 sq mm												
Cells Configuration	9X2	9X2	9X4	9X4		9X4	9X4		9X4	9X4		9X4		9X4				6 X 6				9 X 6				10 X 6				12 X 6												
Cells Size															156 mm X 156 mm																											
No. of Bypass Diodes	Nil	Nil	Nil	Nil		1	1		1	1		2		2				3				3				3				3												
Junction Box Protection															IP65																											
Tolerance of Electrical Parameters															' For Pmax.' - 0 to ~ + 4.99 Wp ' & remaining all electrical parameters ± 3 %																											
Normal Operating Cell Temp.															45°C ± 2°C (irridance 800 w/m <sup>2</sup> , ambient temperature 20° C, wind speed 1 m/sec)																											
Standard Test Conditions (STC)															1000 W / m <sup>2</sup> , 25°C, AM 1.5																											
Max. System Voltage															1000 V (TUV) & 600 V (UL)																											
Tc of Open circuit voltage (β)															- 0.32 % / °C																											
Tc of short circuit current (α)															0.04 % / °C																											
Tc of Power (γ)															- 0.45 % / °C																											
Warranty**															<b>5 Years for limited product warranty , 10 years limited warranty on 90% power output and 25 years on 80% power output for Eldora 10Wp to Eldora 285Wp, Eldora 3Wp &amp; Eldora 5Wp modules, 2 years limited warranty</b>																											
Certification															<b>TUV : IEC 61215, IEC 61730, IEC 61701 &amp; MNRE (ELDORA 3 to ELDORA 280), UL 1703 &amp; MCS (ELDORA 140 to ELDORA 280)</b>																											

## Features

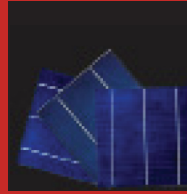
- High conversion efficiency based on leading innovative photovoltaic technologies
- High reliability with guaranteed 0~+4.99 Wp power output tolerance, ensuring return on investment
- Withstands high wind-pressure and snow load (passed 5400Pa mechanical loading test), and extreme temperature variations
- Optimal output over decades, with very good low light response

## Quality and Safety

- 25-year limited power output warranty \*\*
- Rigorous quality control meeting the highest International standards
- ISO 14001 (Environment Health and Safety) Certified Factory
- ISO 9001:2008 (Quality Management System) Certified Factory
- Strict adherence to Electroluminescence Testing ensuring micro-crack free Modules

## Recommended Applications

- On-grid utility systems
- On-grid commercial systems
- Off-grid ground mounted systems



High efficiency anti reflection coating cells with advanced texturing and passivation process which provides enhanced power output.



An IP65 rated junction box consisting of serial or parallel connections of photovoltaic arrays and new positive latching connectors, highly protected from moisture, dust and water. Helps in proper power generation and measurement of electrical output. Consists of 15A diodes, which prevent power loss resulting in no effect on output. Protects from fire too.



High quality interconnecting ribbons used as a conductor which reduces power loss and increases efficiency and life of the solar module. This ribbon ensures the best solderability between solar cells



Eva coated back sheets are adhesive in nature thus helps in proper encapsulation which prevents moisture penetration. Has high electrical insulation and remains untornd in harsh weather conditions. Toughened and textured glass, with low iron content and transmission ability more than 92%.

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