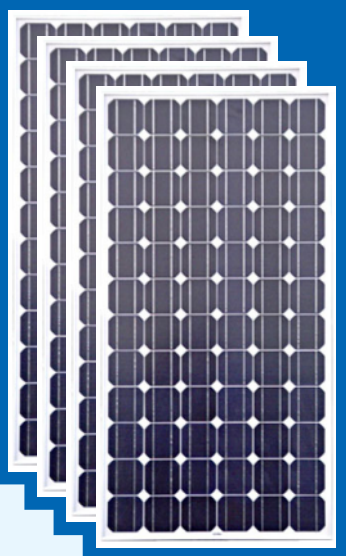




Solar PV Panels The Best option

Su-Kam offers you the free and abundant energy from the Sun as Photovoltaic Energy or Heat (Thermal) Energy through special devices developed and manufactured by sophisticated and high technology processes. Solar panels (arrays of photovoltaic cells) make use of renewable energy from the sun, and are a clean and environmentally sound means of collecting solar energy.



Salient Features

- Maximum sunlight utilization.
- Extremely low degradation.
- Solar cells laminated between UV resistant polymer (EVA) and high transmission toughened glass surface.
- Rugged weather-proof nylon terminal box for output connections.
- High efficiency monocrystalline & polycrystalline silicon cells.
- Lamination using TEDLAR, crane glass and EVA provides environmental protection.
- Anodized aluminum frame provides structural support for mounting and shock resistance.
- Manufactured to stringent quality standards and tested to withstand adverse environmental conditions.

Certifications :

- Certified & approved to the requirements of IEC 61215 standards
- Approved by Solar Energy Centre (MNES) / BSNL / TEC and RDSO
- Safety certification ('S' make) by STQC India for SPV Module upto 80 W

Applications

- Domestic lighting systems • Street Lighting • Water pumping • Battery charging • Community TV system
- Microwave repeater station • Railway signaling and lighting systems • Rural radio phones and exchanges
- Offshore platforms • Desalination Plants • Cathodic protection systems • Portable lantern
- Power pack for village electrification • Crop sprayer • Sign boards & glow signs

Technical Specifications

Capacity (Wp)	10W	20W	40W	50W	75W	80W	100W	120W	125W	150W	200W	250W	300W
Module Volt (V)	12	12	12	12	12	12	12	12	12	12	24	24	24
MODULE SIZE													
Width - W(mm)	280	350	665	665	666	666	666	666	666	666	982	982	982
Height - H(mm)	335	475	435	555	796	796	1006	1151	1151	1483	1639	1639	1966
Thickness - T(mm)	25	25	25	25	35	35	35	35	35	35	35	35	35
Tolerance (+/- %)	5	5	5	5	5	5	5	5	5	5	5	N/A	5
Module Weight (kgs)	1.4	2	3.95	4.8	6	5.95	7.88	8.5	8.5	11	16	17.3	21.8
Cell in series	36	36	(9*4) 36	36	36	(9*4) 36	(9*4) 36	36	36	(9*4) 36	60	60	72
OBLONG MOUNTING HOLE													
Dimension (mm)	10.6	10.6	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	10.6	10.6
"Mounting Hole (X-Axis) (mm)"	242	312	629	629	630	630	630	630	630	630	946	946	936
"Mounting Hole (Y-Axis) (Distance between two Holes) (mm)"	167.5	237.5	217.5	277.5	398	398	503	575.5	575.5	741.5	819.5	819.5	983
ELECTRICAL PARAMETERS													
Voc (V)	21.4	21.4	21.5	21.4	21.4	21.5	21.5	21.4	21.4	21.5	37.25	37.25	43
Isc (A)	0.63	1.25	2.5	3.1	4.6	4.7	6.09	7.2	7.6	8.75	6.21	8.7	9.32
PMax (W)	10	20	40	50	75	80	100	120	125	150	200	250	300
Vpm (V)	17.7	17.7	17.5	17.7	17.7	17.5	17.5	17.7	17.7	18	35.4	29.95	35.4
Ipm (A)	0.57	1.15	2.29	2.85	4.25	4.45	5.7	6.8	7.1	8.33	5.64	8.35	8.47
FF	>0.70	>0.70	>0.70	>0.70	>0.70	>0.70	>0.70	>0.70	>0.70	>0.70	>0.70	>0.70	>0.70
Eff.(%)	>13.5	>13.5	>13.5	>13.5	>13.5	>13.5	>15.0	>15.0	>15.0	>15.0	>15.0	>15.0	>15.0
Maximum System Voltage (V)	N/A	N/A	600	600	1000	1000	1000	1000	1000	1000	1000	1000	1000

Note :

The above specifications pertain to the standard branded SPV Module. It can also supply SPV Modules of different ratings to meet specific technical requirements.

Electrical specifications mentioned above are at standard test conditions as follows [a] light spectrum of AM 1.5 [b] an irradiation of 1,000 Watts per square meter and [c] a cell temperature of 25 degrees Centigrade. Normal production tolerance of +/- 5%

Due to continuous process innovations, the modules supplied may differ from those specified above.

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Certifications

ISO 9001:2008 ISO 14001:2004

R&D
Recognised
by
MINISTRY OF SCIENCE & TECHNOLOGY
GOVERNMENT OF INDIA