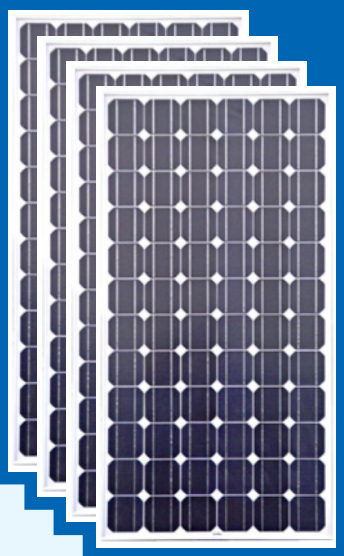




Solar PV Panels The Best option

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

Max. Power Pmp (W)	10W	20W	40W	50W	75W	80W	100W	125W	150W	250W
Power Tolerance (+/-)	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Max. Power Voltage Vmp (V)	16.85	16.95	17.15	17.25	16.92	17	18	18.15	18.25	30.72
Max. Power Current Imp (A)	0.59	1.18	2.33	2.9	4.43	4.71	5.56	6.89	8.22	8.14
Open Circuit Voltage Voc (V)	20.9	21	21.2	21.3	21.82	22.18	22.3	22.4	22.5	37.8
Short Circuit Current Isc (A)	0.65	1.29	2.55	3.17	4.92	5.11	6.1	7.4	8.85	8.63
Max. System Voltage VDC	600	600	600	600	600	600	1000/600	1000/600	1000/600	1000
Pm Temperature Coefficient (%/K)	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.43
Isc Temperature Coefficient (mA/K)	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	0.04
Voc Temperature Coefficient (mV/K)	-2	-2	-2	-2	-2	-2	-2	-2	-2	-0.32
NOCT-Nominal operating cell temp. (Celsius)	45	45	45	45	45	45	45	45	45	45

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.

Su-Kam Power Systems Ltd.

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Certifications

ISO 9001:2008 ISO 14001:2004

