

Solar PV Module

Reliable Quality

- Positive power tolerance: 0 - $\pm 5W$
- High transparent tempered glass.
- Waterproof junction box.
- 100% double-inspection ensures modules are non defective product.
- Modules binned by current to improve system performance.
- Potential induced degradation (PID) free.

Key features :

- Solar modules design for residential and utility applications, rooftop or ground mount.
- The latest module manufacturing technology, high power output and highest conversion efficiency.
- Anti - reflective and self - cleaning surface reduce power loss from dirt & dust.
- Outstanding performance in low light irradiance environments.
- Excellent mechanical load resistance.

Superior Warranty

- 10 years limited warranty on 90% power output.
- Remaining 15 years limited warranty on 80% power output.

Comprehensive Certificates

- MNRE Approved.
- ISO 9001 : 2008 : Quality management system
- ISO 14001: 2004 : Environmental management system
- CE compliance certificate
- RoHS Compliance



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At Tracksun solar, we produce high- quality and high-efficiency Multi-crystalline photovoltaic modules. The multi crystalline power series of solar modules range from 3Wp to 300Wp in power output. Our solar modules are clean, environmentally friendly and meet with our customers and end -users requirements. Adapting our products range to meet market demands allow us to provide our customers with a broader range of on-grid and off- grid solutions for residential, commercial, industrial and utility scale applications around the world.

Our PV modules are formed by interconnecting multiple PV cells and the desired electrical configurations through taping and stringing. The interconnected cells are laid out and laminated in a vacuum and then go through a curing or heating process . Through these processes our PV modules are sealed and become weatherproof and are able to withstand high levels of ultraviolet radiations and moisture. Assembled PV modules are packed in a protective screwless aluminium frame prior to testing.

Mono Crystalline & Multi Crystalline											
Technical Specifications		Detail of Module									
Electrical characteristics	TS5W/6V	TS10W/12V	TS15W/12V	TS18W/12V	TS20W/12V	TS25W/12V	TS30W/12V	TS37W/12V	TS40W/12V	TS45W/12V	
Maximum power at STC(P Max)	5	10	15	18	20	25	30	37	40	45	
Voc (open circuit voltage) in volts	9.01	22.1	21.6	21.74	21.6	21.6	21.6	21.6	21.6	21.6	
Isc (Short-circuit current) in Amps	0.63	0.64	0.96	1.20	1.42	1.69	2.05	2.49	2.71	3.19	
Vmp (Maximum voltage) in volts	9.05	17.28	17.5	17.8	17	17	17	17	17	16	
Imp (current at maximum power)	0.59	0.59	0.86	1.10	1.31	1.58	1.90	2.34	2.51	3	
Maximum system voltage	600 VDC	600 VDC	600 VDC	600 VDC	600 VDC	600 VDC	600 VDC	600 VDC	600 VDC	600 VDC	
Physical Parameters											
Cells per module	18	36	36	36	36	36	36	36	36	36	
Dimensions (*W*L*T) in mm	195*285*22	245*285*22	345*400*26	345*525*26	345*560*26	345*665*35	345*760*35	345*890*35	665*540*35	665*650*35	
Weight approx. Kg.	1	1.6	2.1	2.1	2.8	3	3.6	4.3	4.3	4.9	
Front glass (thickness) in mm	3.2 mm Tempered Low Iron										
Frame	Anodized Aluminium Frame (Double Walled)										
Junction box	2-Terminal	2-Terminal	2-Terminal	2-Terminal	2-Terminal	2-Terminal	2-Terminal	2-Terminal	2-Terminal	3-Terminal	3-Terminal
Detail of Module											
Electrical characteristics	TS50W/12V	TS74W/12V	TS100W/12V	TS120W/12V	TS150W/12V	TS150W/24V	TS200W/12V	TS 200W/24V	TS 250W/12V	TS 250W/24V	TS 300W/24V
Maximum power at STC(P Max)	50	74	100	120	150	150	200	200	250	250	300
Voc (open circuit voltage) in volts	21.6	21.6	21.6	21.6	21.6	44.72	21.6	44.16	21.6	44.17	44.59
Isc (Short-circuit current) in Amps	3.39	4.66	6.60	8.22	8.63	4.3	12.64	6.40	14.96	7.76	9.14
Vmp (Maximum voltage) in volts	16.1	17.4	17.4	17.4	18.5	35	17.4	35	17.4	35.22	35.31
Imp (current at maximum power)	3.2	4.30	6.20	7.4	8.2	4.07	12	6	14.45	7.19	8.46
Maximum system voltage	1000VDC	1000 VDC	1000 VDC	1000 VDC	1000 VDC	1000 VDC	1000 VDC	1000 VDC	1000 VDC	1000 VDC	1000 VDC
Physical Parameters											
Cells per module	36	36	36	36	36	72	72	72	72	72	72
Dimensions (W*L*T*) in mm	665*650*35	665*936*35	665*1242*35	665*1270*35	990*1020*35	990*1020*35	990*1430*42	990*1430*42	990*1815*42	990*1815*42	990*2010*42
Weight approx Kg.	5.7	7.9	9.8	12.4	15.9	16	16.5	20	22	22	27
Front glass (thickness) in mm	3.2 mm Tempered Low Iron										
Frame	Anodized Aluminium Frame (Double Walled)										
Solar Cells	Poly crystalline 156 X 156 mm										
Junction box	3-Terminal	3-Terminal	3-Terminal	3-Terminal	3-Terminal	4-Terminal	4-Terminal	4-Terminal	4-Terminal	4-Terminal	4-Terminal
	IP-65 rated	IP-65 rated	IP-65 rated	IP-65 rated	IP-65 rated	IP-65 rated	IP-65 rated	IP-65 rated	IP-65 rated	IP-65 rated	IP-65 rated
Module Range	3 watt to 300 watt (6v, 12v, 18v, 20v,24v)										
Cell efficiency	15.6% to17.5%										
Encapsulation	Glass, EVA, Cell, Tedalar										

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