

Solar PV Module

Reliable Quality

- Positive power tolerance: 0 - $\pm 5\text{w}$
- 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.
- 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



Solar PV Module

At Lord's solar, we produce high - quality and high-efficiency Multy-crystalline photovoltaic modules. The multi crystalline power series of solar modules range form 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	LMP5W/6V	LMP10W/12V	LMP15W/12V	LMP18W/12V	LMP20W/12V	LMP25W/12V	LMP30W/12V	LMP37W/12V	LMP40W/12V	LMP45W/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												Detail of Module																																						
Electrical characteristics	LMP50W/12V	LMP74W/12V	LMP100W/12V	LMP120W/12V	LMP150W/12V	LMP200W/24V	LMP200W/12V	LMP200W/24V	LMP250W/12V	LMP250W/24V																																								
Maximum power at STC(P Max)	50	74	100	120	150	150	200	200	250	250																																								
Voc (open circuit voltage) in volts	21.6	21.6	21.6	21.6	24.6	44.72	21.6	44.16	21.6	44.17																																								
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																																								
Vmp (Maximum voltage) in volts	16.1	17.4	17.4	17.4	18.5	35	17.4	35	17.4	35.22																																								
Imp (current at maximum power)	3.2	4.30	6.20	7.4	8.2	4.07	12	6	14.45	7.19																																								
Maximum system voltage	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																																								
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.	5.4	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																																								
	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% to 17.5%																																																	
Encapsulation	Glass, EVA, Cell, Tedalar																																																	

*Due to constant quality improvement at our R & D Lab.
 Specifications & Models may changed without prior notice & as per customer requirement.



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