

Solar PV Module

Reliable Quality

- Positive power tolerance: 0 - ± 5 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 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	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	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	LMP50W/12V	LMP74W/12V	LMP100W/12V	LMP120W/12V	LMP150W/12V	LMP150W/24V	LMP200W/12V	LMP200W/24V	LMP250W/12V	LMP250W/24V	LMP300W/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	24.6	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	1000 VDC	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.	5.4	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	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% to 17.5%										
Encapsulation	Glass, EVA, Cell, Tedalar										

*Due to constant quality improvement at our R & D Lab.
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Solar Power Plant

Solar power plant is based on the conversion of sunlight into electricity, either directly using photovoltaic (PV) and tracking systems to focus a large area of sunlight into a small beam. Photovoltaic converts light into electric current using the photoelectric effects. The term **off-grid** refers to not being connected to a grid, mainly used in terms of not being connected to the main or national electrical grid. In electricity, off-grid can be stand-alone systems (SHS) or mini-grids typically to provide a smaller community with electricity. Off-grid electrification is an approach to access electricity used in countries and areas with little access to electricity, due to scattered or distant population. In situations where grid parity has been reached, it becomes cheaper to generate one's own electricity rather than purchasing it from the grid. We have installed off-grid solar power generating systems ranging from 1KW to 150 KW. Lord's Mark Industries Pvt. Ltd. Off-grid Power Plants are not green but also economical. It is the best outlay opposed to escalating fuel and grid charges.

1 KILOWATT

ELECTRICAL LOAD	QNTY	POWER (IN WATTS)	POWER (IN WATTS)
Fan	4	100	400
Light	6	40	240
TV	1	100	100
Computer	1	100	100
Water Purifier	1	40	40

2 KILOWATT

ELECTRICAL LOAD	QNTY	POWER (IN WATTS)	POWER (IN WATTS)
Fan	4	100	400
Light	6	40	240
Refrigerator	1	250	250
Computer / Laptop	1	100	100
Water Purifier	1	40	40
Washing Machine	1	800	800

3 KILOWATT

ELECTRICAL LOAD	QNTY	POWER (IN WATTS)	POWER (IN WATTS)
Fan	4	100	400
Light	6	40	240
Microwave Oven	1	1800	1800
Mixer / Grinder	1	500	500
Refrigerator	1	250	250
Water Purifier	1	40	40

Note: Alternately you may use other small power equipments



Solar LED Street Light

Product features:

- Low power consumption
- Extremely long life LED's (>50,000hrs)
- Automatic dusk to dawn operation (D to D)
- No lamp blackening, no lamp replacement for several years
- Rugged body made up of aluminium



Model	9w	12w	15w	18w	24w
Application	Dusk to Dawn				
Solar Module	20w	40w	50w	75w	100w
Battery Compatibility	Lead Acid, Tubular plate VRLA (Sealed Maintenance Free)				
LED Used	High brightness Cool White				
Rated Working Voltage	12 VDC				
Lamp Life	>50,000 burning hours				
Efficiency	> 85%				
Autonomy	2 Days				
Indicators	Battery Low warning, Battery Full Charged				
Load side protection	No load protection, Short Circuit protection, Reverse polarity protection				
Battery side protection	Reverse Polarity, Over Charging, Deep Discharging, Battery Temperature Compensation				
PV module side protection	Reverse polarity, Reverse current flow to PV Module during night				
IP Rating	IP 65				
Pole Height	≥ 4.5 Meters (approx.)				

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Solar Garden Light



Product features:

- High illumination
- Easy to install
- No use of wires
- Automatic light sensor
- Super bright LEDs
- Resistance & durability
- Save money & Electricity
- Stainless steel body

Technical Specifications

Solar panel:	1W	0.36W	3W
Battery:	3.6V1200mAh	1.2V 1200mAh	6V 4.5Ah
Type of Battery	AA, Ni-Mh	Ni-Mh	SMF
Light source:	1 Nos. UHB LED	6 Nos.	16 nos. of LED's
Protections:	Short circuit, Reverse Polarity, No Load protection		
Operating hours:	6 Hrs	6-8 Hrs	7Hrs
Material used:	Stainless Steel / Powder Coated Mild Steel		
Color temperature of LED:	5500-6500K	5500-6500K	5500-6500K
Technology:	Automatic dusk to dawn	Automatic dusk to dawn	Automatic dusk to dawn
Pole height:	2.5 Feet	2.5 Feet	2.5 Feet

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Solar Madhani

Product features:

- Scratch-proof body structure
- Noiseless performance
- Reliable
- Withstands a wide range of voltage
- Stainless steel body
- Advance technology
- Available in different colors, sizes, designs & patterns
- Low power Consumption.
- Easy to clean
- Handy in use



Technical Specifications		
Model	Madhani 1	Madhani 2
Capacity	10Ltr	20Ltr
Power	36W	60W
Charge Controller	6A	10A
Battery	26Ah	40Ah
Solar Panel	40Wp	75Wp
Operation Voltage	12VDC	12VDC



Solar Water Pumps

Product features:

- No inverter Dc motor connects directly array
- Simple installation and maintenance
- Wide range of solutions : surface, open-well, dripped, sprinkler and other.
- No dependance on erratic grid power
- Advance safety features including dry run, reverse polarity, low voltage and lightening arrest
- High reliability

Solar Panel (in Wp)				
Motor Power	Depth upto 100 ft.	Depth upto 250 ft.	Depth upto 400 ft.	Depth upto 500 ft.
1 hp	800 W	1000 W	1100 W	1200 W
2 hp	1600 W	2000 W	2200 W	24010 W
3 hp	2400 W	3000 W	3300 W	3600 W
5 hp	4000 W	5000 W	5500 W	6000 W
6 hp	4800 W	6000 W	6600 W	7200 W
7.5 hp	6000 W	7500 W	8250 W	9000 W
10 hp	8000 W	10000 W	11000 W	12000 W
12.5 hp	10000 W	12500 W	13750 W	15000 W
15 hp	12000 W	15000 W	16500 W	18000 W

Technical Specifications

Model	6-15 hp	1-5 hp	1-3 hp	1.5 hp
Power Rating	6-15 hp	1-5 hp	1-3 hp	1.5 hp
Input Voltage Voc	850-980 VDC	80-150 VDC	70-150 VDC	70-150 VDC
Input Voltage Vmp	700-880 VDC	70-130 VDC	65-130 VDC	65-130 VDC
Output Voltage	250-450VAC (3phase)	250-440VAC (3phase)	250-440 VAC (3phase)	250-440 VAC (3phase)
Frequency	0-80Hz	0-80Hz	0-80Hz	0-80Hz

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Home Lighting

Product features:

- High efficiency PWM charge controller.
- Robust & Elegant luminary.
- Safe & easy install.
- Free from noise, smoke & pollution.
- Available in different Configurations.
- Mobiles charging option available.



Benefits

- Economical: Sun provides Energy free of cost, you enjoy 30% power saving on your electricity bill & a longer back up lighting system at zero running cost.
- Non polluting: Powered by the sun's renewable energy, the system is energy neutral & absolutely clean of illumination.

Model	LMP HLS 10	LMP HLS 40	LMP HLS 100	LMP HLS 150	LMP HLS 200
Power	10 W	40 W	100 W	150 W	200 W
SPV module	10 Wp	40 Wp	100 Wp	125 Wp	200 Wp
Battery	7.2 Ah	40 Ah	100 Ah	120 Ah	150 Ah
Charge controller	AC / DC Charging	5 A	10 A	10 A	20 A
Lamp/Wattage	3 W	9 W	9 W	9 W	9 W
Fan Wattage	-	14 W	14 W	14 W	14 W
Operating voltage	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC
Battery Box	Fibre	Fibre	Fibre	Fibre	Fibre
Indicators	Charging & Battery Low				
Protections	Deep discharge, Reverse current & Overload unerload				
Mobile charging	Provided				
Uses	2 Nos. of LED Bulb	2 Nos. of CFL	4 Nos. of CFL	6 Nos. of CFL	6 Nos. of CFL
		1 DC Pedestal / Table Fan	1 DC Pedestal / Table Fan	2 DC Pedestal / Table Fan	3 DC Pedestal / Table Fan

Other structures

- Battery enclosure
- Cables
- Optional DC Fans (if required)

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Solar inverter (Hybrid & PCU)

Product features:

- DSP based design.
- Pure sine wave output with low harmonic distortion (TDH).
- High efficiency & high reliability
- Protection like overload & short circuit protection reverse & deep charge protection
- High surge capability for starting heavy load.
- Noiseless in operation.
- User friendly display.
- PWM / MPPT solar charging (Boost/Float/Tricke)
- Low idle power consumption.



Model	100/200/300/400/ 600/800VA/12V	1000/1500VA/24V	2000VA/36V	2500/3000VA/48V 5KVA/72V, 65KVA/96V, 7.5KVA/96V
Input Voltage (UPS) -	180-260V	180-260V	180-260V	180-260V
Input Voltage (INV) -	90-280V	90-280V	90-280V	90-280V
Output Voltage on mains mode -	same as input	same as input	same as input	same as input
Output Voltage on Inverter Mode -	220 +/-5%	220 +/-5%	220 +/-5%	220 +/-5%
Output frequency on inverter mode -	50Hz +/-0.1 Hz	50Hz +/-0.1 Hz	50Hz +/-0.1 Hz	50Hz +/-0.1 Hz
Switching from mains to inverter and from inverter to mains	Automatic	Automatic	Automatic	Automatic
Switching from mains to UPS and from UPS to mains	Automatic	Automatic	Automatic	Automatic
Output waveform on mains mode -	same as input	same as input	same as input	same as input
Output waveform on inverter mode -	pure sine wave	pure sine wave	pure sine wave	pure sine wave
Efficiency -	>80%	>80%	>80%	>80%
Inverter Overload -	120%	120%	120%	120%
Inverter short circuit -	300%	300%	300%	300%
Technology -	DSP based design	DSP based design	DSP based design	DSP based design
Auto reset features -	yes	yes	yes	yes
PV Panel Max Voc -	23 V	45 V	9V/138V/184V	68 V
PV panel on load Output -	15.5 V	31 V	62V/93V/124V	46.5V
Output Current -	10A to 40 A	10A to 40 A	10A to 40 A	10A to 40 A
Battery full charge cutoff -	13.8 VDC	27.6VDC	55.2/82.8/110.4VDC	41.4VDC

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Solar Fan

Product features:

- DC brushless motor fan
- Higher efficiency and reliability
- Longer lifetime (no brush and commutator erosion)
- No heating problem
- Low Power Consumption
- Blades replaceable in various sizes
- Speed Controller
- Solar battery, rechargeable battery, car battery can be used on this fan.
- Maintenance free operation
- Excellent delivery with no noise.
- Operates on solar power- no running cost.
- Easy handling & installation.

Technical Specifications

	Ceiling fan/BLDC	Table fan	Pedestal fan
Type of Fan	Ceiling fan/BLDC	Table fan	Pedestal fan
Operating voltage	12VDC	12VDC	12VDC
Consumption	24W	12-15W	18W
Speed	Four	Three step	Three step
Switch type	speed controller	Step switch	Step switch
Weight	3.9kg	2.8 Kg	3.5kg
Current	1.5 - 2Amp.	1 - 1.2 Amp.	1.5 - 1.8 Amp.
Blades	3	3	3
Body	Metal	ABS plastic	Metal
Noise	27DB	27DB	27DB
Wind type	Soft & strong	Soft & strong	Soft & strong
Rotational speed	≤ 400 RPM	1200 - 1600 RPM	1600 RPM
Motor Type	DC	DC	DC
Safety	Reverse	Reverse	Reverse

Solar Cooler

Product features:

- Eco-user friendly.
Easy to install & operate.
- Highly efficient
- Adequate protections on load & battery
- Solar powered dc cooler fan
- Designed for low power consumption and more air
- High speed for ensure more air
- Quality motor to ensure better life of fan.
- No Fear of electric shock
- No fear of power cut
- Extra large water tank



Technical Specifications

Operating voltage -	12 VDC	12 VDC
Current rating -	5 A	3 A
Power consumption -	60 W	48 W
Body -	ABS plastic body	ABS Plastic Body
Blades -	3 Blades	3 Blades
RPM -	1500 - 1800 RPM	1200-1500 RPM
Control switch -	2 Nos.	2 Nos.
Operating hours -	7-8 Hrs	7-8 Hrs
Battery -	75 Ah	48 Ah
SPV module -	100 W	75 W
Charge tank capacity -	10 A	6A
Water tank capacity -	50-60 Ltrs.	40-50 Ltrs.
Fan Size	16"	12"

Solar Lantern



Product features:

- Uniform 360 degree light coverage
- Fully digital operation
- Durable ABS plastic body
- Mobile charge facility
- Two days of autonomy
- Safety features like overcharge, deep discharge, reverse battery & short circuit protections
- Eco-friendly
- Easy to install, maintenance
- No fumes or No smoke
- Maximum light coverage
- User selectable high/low intensity
- Long lasting high power LED's
- Micro controller based high efficiency electronics
- Aesthetically designed portable light
- Available in different Models
- A.C. charging - optional
- Mobile Charging

Technical Specifications		Models	
Light Wattage	3W	5W	7W
AC/DC charges	9V	14.8V	14.8V
SPV Module	3 -5W	10W	10-20W
Mobile charging	Multipin	Multipin	Multipin
Battery (SMF)	6V/4.5Ah	12V/7.2Ah	12V/7.2Ah
Weight	1.3Kg	3Kgs	3Kgs
Operation hours	4-5 Hrs	10-12 Hrs	8-10 Hrs
Lighting Position	3 Steps	3 Steps	3 Steps
Solar Charge Controller	Inbuilt	Inbuilt	Inbuilt
Batter Type	SMF	SMF	SMF
Indicators	Low battery, Battery charging, Battery full charged		

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Solar Water Heater



Product features:

- Superior Corrosion resistant stainless steel inner tank.
- Extra thick insulation for minimum heat loss.
- Long life corrosion proof MS protected outer body.
- Vacuum tube with superior coating to absorb maximum Solar radiation & for maximum heat radiation.
- Backup electric heating element for cold rainy days (optional).
- Power coated MS stand & Rust resistance.
- Highly efficient heat pipe technology.
- Heat pipe plus vacuum tube structure, no any water in tube, if tube broken, the water not lose.
- High pressure storage tank (Testing pressure = 11 bar), Inner tank material : enamel tank, 2.0mm or stainless steel 1.2mm
- No sealing rubber is needed & hence no leaking problem
- Easy plug-in installation, Anti-freeze
- Save upto 710% of electricity.

Technical Specifications

Capacity -	100-500LPD
No .of vacuum tubes -	10 - 50
Safety devices -	Thermostat
Pipe connection -	3/4" pipes
Backup electric heating -	2Kw heating elements
Daily usage -	Up to 4 - 8 persons
Inner tank material	High grade stainless steel
Outer tank Material	Stainless Steel
Temperature	65° C to 85°C
Tank Insulation	High quality PUF materials
Tank Volume	100Ltr to 500 Ltr
Frame Angle	45 Degree
Stand Frame	Galvanized Powder Coating
Type of circulation	Thermo Siphon
Type of Grommets	Silicon rubbers
Tube Material	Special grade Borosilicate Glass

Solar Road Stud



With the aid of our knowledgeable professionals, we are engaged in manufacturing and supplying **Solar Road Studs**. These road studs are free lighting devices which are used in road construction, in order to define the sidelines. Our offered studs are fitted with solar photovoltaic panels that allow the absorption of heat energy from sunlight and then transmits light in these during night. These studs provide safety on roads by making a defined line for driving vehicles at night. **Solar Road Studs** are engineered in different sizes and designs by us using high - grade raw components that are procured from the credible vendors of the market.

Product Features :-

- Unmatched Performance
- Longer working life
- High visibility of LED's help ensure easy and safe driving
- Ideal for highways, parking lots and roads.
- Easy installation and no maintenance required. Auto Switch On and Auto Switch Off.

Specifications:

- Construction: Aluminium - alloy steel.
- 100% water proof design confirms to IP 67.
- Dimension : 140 mm x 128 mm x 82 mm ; + 1 mm, Height of shank - 54 mm; + 0.5 mm
- Diameter of Shanks : 42.5 mm + 0.5 mm.
- Plastic : Unbreakable, Scratch Proof poly carbonate for maintenance free operation.
- Solar panel high efficiency mono crystalline 2.5 V/60 m A.
- Battery: one Ni-mh type (1.2 V/1200 m Ah) high temp.
- Compression Strength: 14 Tons.
- Autonomy: 60 hours when fully charged.
- Colour: Red, Amber, Blue, Greed and White.
- Blinking: Typically 1HZ can be supplied in Non Blinking type or different cycle.
- Weight: 730 + 10gm.



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