

Save on your  
Electricity today

**GO SOLAR**



**SUNLIGHT INFRA ENERGY PVT. LTD.**

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**SOLAR PANEL**



**SUNLIGHT INFRA™**  
ENERGY PVT LTD

## ABOUT US

**Sunlight Infra Energy Pvt Ltd** Established in 2010 with head quarters at Ahmedabad. We welcomes you all to its staggering world of electronic items and solar products. We are a specialized manufacturer of LED signals, solar lighting system, solar home lighting system, solar street lighting system etc. In addition to this, we manufacture superior quality solar lantern, solar led road studs, solar power packs etc.

As sunlight infra energy pvt ltd we are a group of dedicated & result- oriented professional having rich experience in the field of Water treatment Industry, at various hierarchy in the different departments like Design & Engineering, Marketing & Project execution of Reverse Osmosis systems, De ionization systems, Filtration system of different capacities and up to turnkey projects for various reputed concerns.

## QUALITY ASSURANCE

We always aim at maintaining highest level of quality standards in the range of Solar LED Lights, Solar Street Light And Solar Pump offered by us. We are **ISO 9001:2015** certified company. In order to maintain the quality of our products, the entire range of products is manufactured using high-grade raw material procured from the reliable sources. We also adopt latest technology, methodology and sophisticated equipment for carrying out production related processes. Moreover, the products range offered by us conforms to the international quality standards. We have a team of quality controllers who keep a check on the procurement, design, fabrication, packaging and others. They also check the entire range of products on certain well-defined parameters to gauge its flawlessness.

## OUR TEAM

- Production Managers
- Quality Controllers
- Sales and Promotional experts
- Professional Trainers
- Packaging Experts
- Warehousing Experts



## WHY US

- Superior Quality Products
- Capacity to meet bulk requirements
- Customers focused approach
- Competitive prices
- Wide distribution

### SPECIFICATION

Maximum Power (Pmax)	40W	50W	60W	75W	100W	150W	250W
Open Circuit Voltage (VOC)	21.7V	22.4V	21.5V	22.4V	22.6V	21.50V	37.45V
Short Circuit Current (ISC)	2.65A	2.96A	3.97A	4.43A	5.76A	8.68A	8.98A
Voltage at Maximum Power (Vmp)	17.2V	18.4V	17.2V	18.3V	18.7V	18.40V	29.9V
Current at Maximum Power (Imp)	2.33A	2.72A	3.49A	4.10A	5.40A	8.23A	8.43A
Module Efficiency (%)	16.89	17.01	17.41	17.52	17.78	18.04	18.04
Operating Temperature	-40°C to +85°C						
Maximum System Voltage	1000V DC/1500V DC						
Fire Resistance Rating	Type 1(in accordance with UL 1703)/Class C(IEC 61730)						
Maximum Series Fuse Rating	15A						

### ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (Pmax)	325W	330W	335W	340W	345W	350W	355W
Open Circuit Voltage (VOC)	45.94V	45.9V	46.44V	46.3V	46.5V	46.7V	46.9V
Short Circuit Current (ISC)	9.21A	9.36A	9.26A	9.52A	9.60A	9.68A	9.76A
Voltage at Maximum Power (Vmp)	38.01V	37.3V	38.88V	37.7V	37.9V	38.1V	38.3V
Current at Maximum Power (Imp)	8.58A	8.85A	8.65A	9.02A	9.11A	9.19A	9.27A
Module Efficiency (%)	16.89	17.01	17.41	17.52	17.78	18.04	18.30
Operating Temperature	-40°C to +85°C						
Maximum System Voltage	1000V DC/1500V DC						
Fire Resistance Rating	Type 1(in accordance with UL 1703)/Class C(IEC 61730)						
Maximum Series Fuse Rating	15A						

STC: Irradiance 1000W/m2, Cell temperature 25°C, AM1.5

### MECHANICAL CHARACTERISTICS

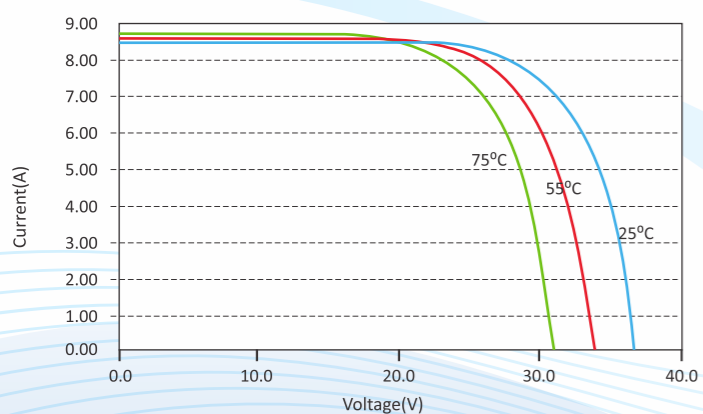
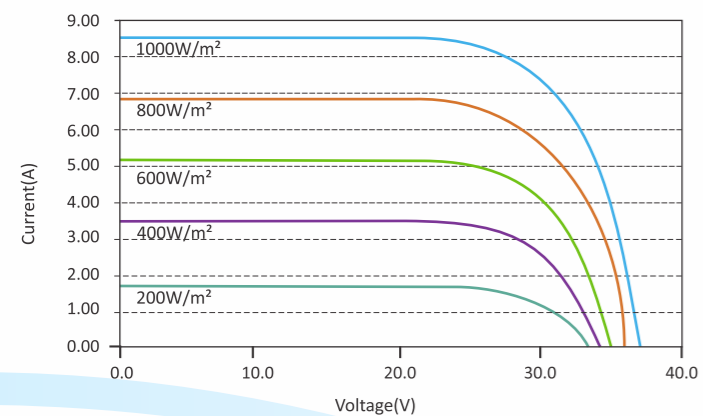
Cell type	Polycrystalline 6inch
Number of cells	72 (6x12)
Module dimensions	1956x992x40mm (77.01x39.06x1.57inches)
Weight	21kg (46.3lbs)
Front cover	3.2mm (0.13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP67, 3 diodes
Cable	4mm <sup>2</sup> (0.006inches <sup>2</sup> ), 1000mm (39.37inches)
Connector	MC4 or MC4 compatible

### TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of Pmax	-0.39%/°C
Temperature Coefficients of VOC	-0.30%/°C
Temperature Coefficients of ISC	0.05%/°C

### PACKAGING

Standard packaging	27pcs/pallet
Module quantity per 20' container	270pcs
Module quantity per 40' container	648pcs(GP)/708pcs(HQ)

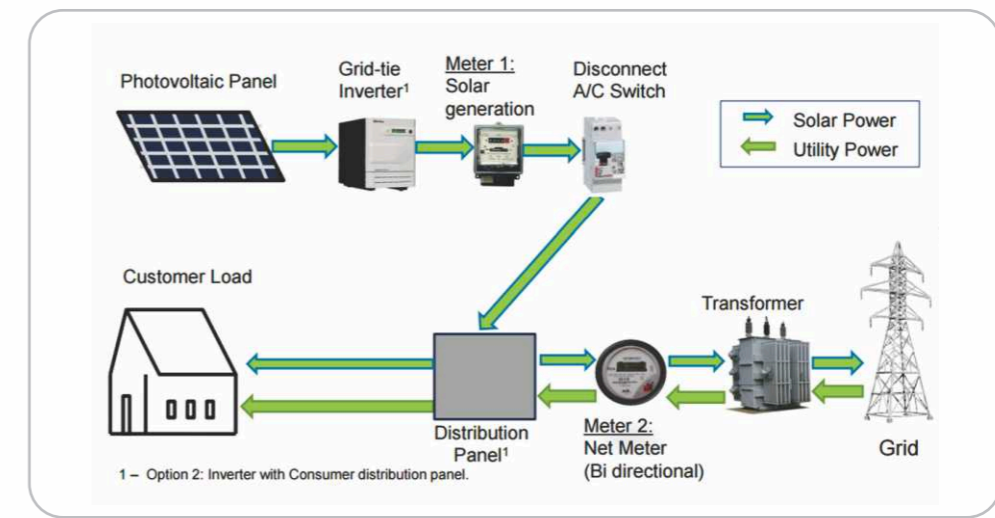
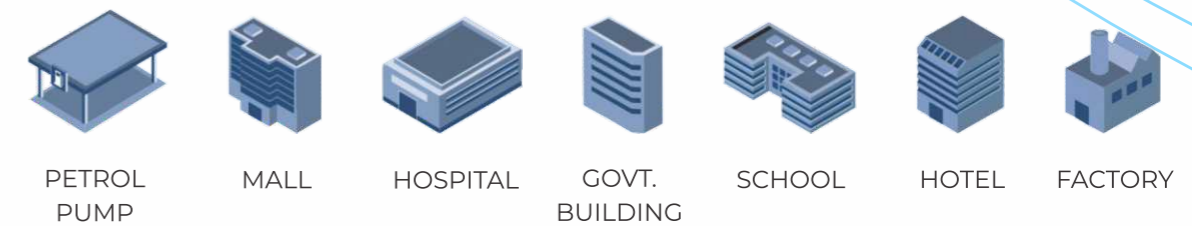


## SOLAR ONGRID SYSTEM

Solar Photovoltaic Power Generator comprises SPV modules for harvesting sun energy, solar deep cycle battery for storage, and a PCU for conversion from DC to AC and Electricity source as well as a complete set of installation hardware.

In ongrid System there is back the Solar power is synchronies with grid Power and you can clean and green power. It will reduce your electricity bill along with that major industry, factory hospital, hotel can go for accelerated depreciation. Usually the pay back is less than 4-5 year.

### Who Can Install ?



### SPECIFICATION

SYSTEM	PV MODULE	INVERTER MAKE	STRUCTURE
3 KWA	330Wx10	SOLAX / SOLIS	GI
5 KWA	330Wx16	SOLAX / SOLIS	GI
10KWA	330Wx31	SOLAX / SOLIS	GI
20KWA	330Wx62	SOLAX / SOLIS	GI
50KWA	330Wx152	SOLAX / SOLIS	GI

It is standard, We provide customize solution

## SOLAR OFFGRID SYSTEM

Solar Photovoltaic (SPV) produces DC electricity directly from the sunlight and is extremely simple to operate and maintain. They have a long operating life wide highly reliable and trouble free performance. These are totally noiseless and do not produce any environmental pollution or ecological imbalance. This energy sources are totally modular in nature, therefore, the cost per unit installed capacity does not depend very much on the size of the Power Plant.

All these important advantages make Solar Photovoltaic Electricity eminently suitable for Various important applications. SPV electricity may turn out to be the ideal solution, particularly in remote location, where grid transmitted and centrally generated electricity is unlikely to be economical, and where the availability of such electricity cannot be guaranteed on reliable basis. This is due to the fact that the fuel, i.e.

The sunlight is available right at place of use and it does not require qualified technical personnel to operate and maintain the SPV energy source. Indeed, Solar Photovoltaic are rightly projected as one of the most important renewable energy source to the supplement and compliment the electrical energy requirements of the dispersed and energy-deficient population living in the remote and inaccessible areas



### SPECIFICATION

SYSTEM	PV MODULE	SOLAR PCU	BATTERY	STRUCTURE
500W	330x2	850VA	150Ahx1	GI
1 KWA	330Wx3	1KWA	150Ahx2	GI
2KWA	330Wx6	2KWA	150Ahx8	GI
5KWA	330Wx16	5KWA	150Ahx16	GI
10KWA	330Wx31	10KWA	150Ah	GI

Battery bank Depend upon customer requirement and design  
We provide customize solution also.

## INSTALLATION

