

Sky Fuel is FREE

Go for

Solar Generator



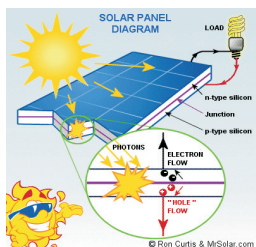
- Reduce Your Power bill
- No Maintenance - No recurring cost
- Fuel Save Solution for large D.G. Sets
- Life of 20 / 25 Yrs
- Accelerated Depreciation of 80%

For All Types of Grid Tie Applications

Get appropriate
Solar Power Solutions from us.

 **B.Algo[®] Solar**
Bridge to future energy needs

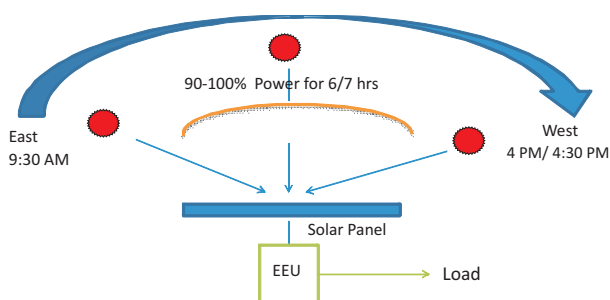
How Solar Works ..



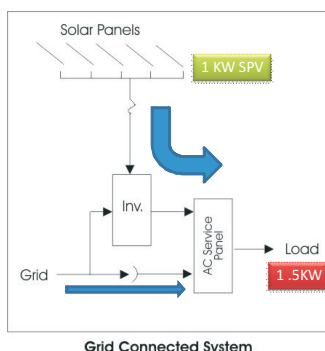
Solar Panels are made of n type & p type silicon leaves, similar to battery.

When sun light falls on the solar panels, causes flow of electrons. This is a DC current which when converted to AC, is used as "Power" to run the electrical appliances.

Limitations of Solar Power :



Sun is not stationary & keeps moving from East to West through out the day. You may get bright light in early morning hrs but most of it is reflected light. Angle of inclination of sun with respect to solar panel is very important in solar systems. There are not much direct sun rays / radiations falling on the solar panels and hence not much power can be generated in early hrs in morning as well as in the late after noon hrs.



The diagram shows logical flow of power from Solar panels. On grid inverter monitors grid power continuously and generates equivalent AC power from solar DC to suit the grid condition. This power is fed to Grid via AC distribution Panel. When the load is lower than the generation, extra power is drawn from grid and this is how one can save power to the extent of solar power generated at that moment of time.

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Difference of On Grid & Off Grid Systems :

On Grid systems, as the name indicates are directly connected to the grid directly and hence also called as grid tied systems. Where as Off grid system are stand alone and presence of grid power is not mandatory as in On grid.

Off grid system is like any other conventional home inverter system and Solar DC power is fed in addition to battery for generation of AC. Solar DC power feeds power to inverter for AC generation and also charges the battery. Overall output in terms of AC generation is much lesser in off grid system than in On grid system. Hence the payback period is relatively high and there is a maintenance / replacements required for batteries periodically.

Such type of Off grid systems are best suited for the locations where grid is not available or availability of grid is uncertain. However this type is being phased out as it uses batteries and batteries are not environment friendly.

On grid, on the other hand are more efficient & have almost no maintenance and pay back period is relatively fast. These are best suited for locations where availability of grid power is reliable.

On Grid System Components :

There are 2 major components in On Grid a Solar Generator.

1. Solar Panels
2. Solar Generator / Inverter

Solar Panels :

Life of Solar Panel is estimated as 25 Yrs +. with abt 1% - 1.5% production degradation per year Hence all the other system components need to be of equivalent life span. Supporting structure needs to be Hot Dipped Galvanised with all stainless Steel Nut Bolt / Fixtures. It should withstand the maximum wind pressure noted at the given height / point of installation.

Electrical System :

Not only the Inverter but all the supporting electrical system needs to stand the grid voltage fluctuations / site conditions using necessary spike suppressors on AC & DC side both, earthing & incorporate necessary protections and give stable power supply to load.

Inverter has to be of best quality & is the most critical component as it has a long life span to provide service. It has to be programable at site to accommodate changes in the site conditions , client's requirements which may arise over a span of 25 yrs, within the reasonable limits.

Batteries:

No battery is required in any On Grid System

Other but important components:

Proper earth is most essential not only for inverter but also for structure & lightning arrester. Large area of metal (solar panels) is exposed to open air, specially for roof top systems with higher capability, chances of lightening strikes increases. Proper design of Lightening arrester system is also critical part.

Spike Suppressor on DC & AC side with fuses & breakers of appropriate rating, use of UV grade solar cable are also essential requirements for longer trouble free performance of the system.

How It is useful ...

For the states# where Nett Metering or Feed in tariff is available, all the establishments including residential users can generate complete requirement of their power during the day time and deposit the power with their DISCOM. This extra power generated from solar during day time & deposited will be adjusted against their night time power consumption at some fixed charges which are quite nominal. Please enquire about this with the Electricity Distribution Company which provides you power.

For the states where this facility is not made available can go for their "Day Time" power needs. We have seen that solar power is available between 9 AM to 4 PM, most of the commercial establishments like banks, factories, offices, hospitals, hotels, schools / colleges, Malls, Ware houses, cold storage etc can go for a On grid system to support their power needs equivalent to the "Day Time" power consumption.

If engineered properly, this can amount to huge power saving during the day time.

: Gujrath, Tamin Nadu, Andhra Pradesh, Kerala, Punjab, Uttarakhand, Delhi, Uttar Pradesh, West Bengal, Karnataka, Chattisgadh, Goa (Union Territories), Rajasthan, Odisha (as on date)

Accelerated Depreciation :

Accelerated Depreciation* of 80% is available on Solar Systems.

* Pl check current provisions applicable to you.

Post Installation Service

Since Solar is a relatively new technology in this part of country hence a reliable & long standing party is required to provide Post Installation Support who can attend to any complaint in case of unforeseen breakdown.



Mahakali Mandeer, Chandrapur
5 Kwp



Wazibdar Petrol Pump, Akola
2.24 Kwp



R.K. Engineers P. Ltd Nagpur
1.2 Kwp



NMC Lakadgaj, Nagpur
25 Kwp



Verma Batteries, Yawatmal
1.7 Kwp



Jog Hospitality P Ltd, Nagpur
5 Kwp



NMC Aashi Nagar, Nagpur
25 Kwp



NMC Nehru Nagar, Nagpur
25 Kwp



V.N.I.T., (Electrical Engg Dept)Nagpur
5 Kwp



NMC Main Building, Nagpur
50 Kwp

About B.Algo Solar

Business Algorithms P. Ltd, popularly known by trade name B.Algo is 27 Yrs old company incorporated under companies act. B.Algo has been one of the leading and oldest player in I.T. Business in central India. We are also distributors for Microtek Inverters for Vidarbha & Marathwada since last 11 yrs. We are authorised channel partner for Waaree Energies Ltd for their Solar Panels, dealer for Emerson & Swastik for Solar Generator and are also Proinso Network Partner.

We have a team of company trained technicians for installation as well as post installation service. B.Algo's staff is trained by SMA Solar Academy. We are also execution partner for Warree Mumbai , Kirloskar Pune, Power One Bangalore & many other companies for kilowatt projects and have over 250 KW+ installations to our credit.

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for Offices, Banks, Factories, Malls, Petrol Pumps, Hospitals, Warehouses, Colleges, Schools, Farm Houses
Captive Power Projects



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