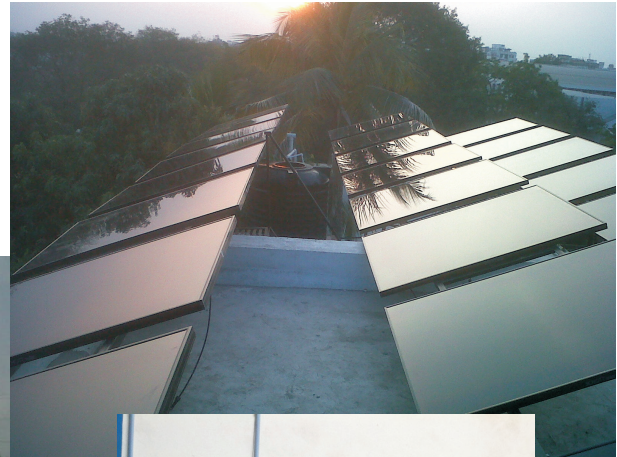


Sky Fuel is FREE

Go for

Solar Generator



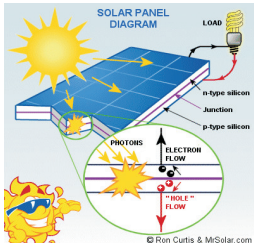
- Independent of Grid power
- Free Power during day time
- Functions as Inverter in Night
- Stabilised Power supply - No Voltage variation
- Life of 20 / 25 yrs
- Saves on fuel cost for your D.G.
- Accelerated depreciation of 80%

For All Types of Off Grid Applications

Get appropriate
Solar Power Solutions from us.

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

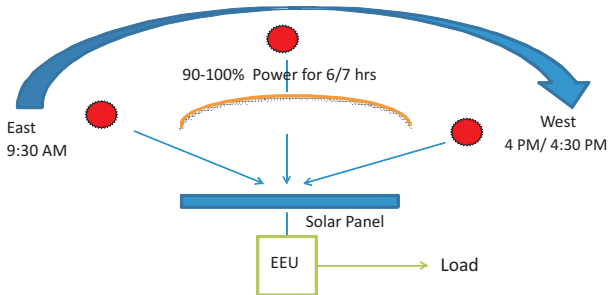
How Solar Works ..



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 :



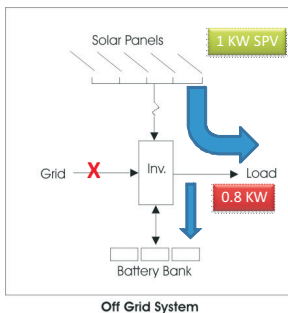
Sun is not stationary & keeps moving from East to West through out the day. You may get bright light in early morning hrs but most of it is reflected light. Angle of inclination of sun with respect to solar panel is very important in solar system. There are not much direct sun rays / radiations falling 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.

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.

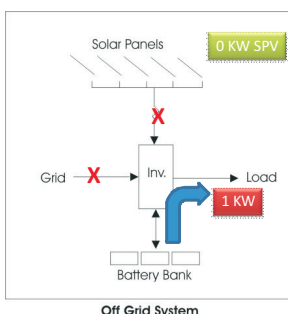
Off grid system is like any other conventional home inverter system and Solar DC power is fed in addition to battery for generation of AC. Solar DC power feeds power to inverter for AC generation and also charges the battery. Overall output in terms of AC generation is much lesser in off grid system 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.

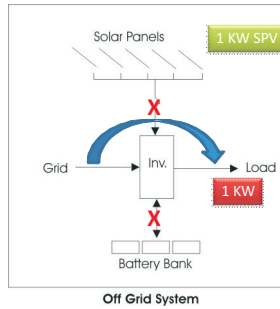


On grid, on the other hand are more efficient & has almost no maintenance and pay back period is relatively fast. These are best suited for locations where availability of grid power is reliable.

The diagram shows logical flow of solar power in Off Grid system. Inverter feeds AC power to the load and also charges the battery during day time.



The next diagram shows power flow in the evening / night. The batteries charged during day time feed power to Load till a preset level so that some power can be kept balance for actual emergency power cut in the night.



Once the batteries are discharged to the preset level, the inverter shifts the load to Mains power automatically without any manual intervention.

Off Grid System Components :

There are 3 major components in On Grid Solar Generator.

1. Solar Panels
2. Solar Generator / Inverter
3. Batteries

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 programmable 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:

Battery is an essential component of any Off Grid System. These batteries need to be of C10 or C5 grade as batteries are required to be fully charged just in 8 to 9 Hrs of sun shine. They need to have longer life and support up to 70% depth of discharge.

Other Electrical Components :

Proper earth to the entire system is MUST. In case of high rise buildings, where solar panels are installed on roof top, proper lightning arrester is must. We also use spike suppressing devices of proper ratings both on AC & DC side for additional protection.

How it is useful ...

When power is not available during day time, the inverter converts solar energy to electricity and feeds power to run your business / house. It also works as a normal inverter in night hrs. It gives stabilised power supply so that your equipments can run smoothly.

It saves the fuel & maintenance cost of your diesel generator.

Off Grid Solar Power is best alternative to your power needs during day time. Specially in the areas where power supply is erratic.

Accelerated Depreciation :

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

* Pl check current provisions applicable to you.

Post Installation Service

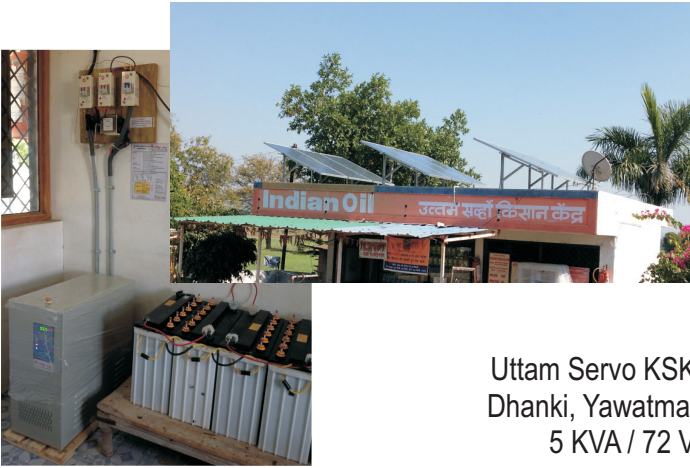
Since Solar is a relatively new technology in this part of the country hence a reliable & long standing party is required to provide Post Installation Support in case of any unforeseen breakdown.



Gilani Servo Petroleum
Yawatmal
5 KVA / 72 V



Pawan Servo Fuel Center
Yawatmal ; 5 KVA / 72 V



Uttam Servo KSK
Dhanki, Yawatmal
5 KVA / 72 V



Mahindra Petroleum, Gadchandur
Chandrapur ; 5 KVA / 72 V



Maa Ganaga Memorial
Baheti Hospital
Washim
6 KVA / 98 V

Bhosla Devsthan
Gadmandeer
Ramtek
1.5 KVA / 24 V



B.Algo HO
Nagpur
4 Kva / 72 V

MT Patel Farm House
Fetri, Nagpur
1.5 KVA / 36 V



Verma Tractors, Yawatmal
3 KVA / 24 V



HP World Showroom
Nagpur
4 KVA / 96 V



VRL Logistics Ltd, Gondkhairi, Nagpur
20 KVA / 240 V



V.N.I.T., (Electrical M/c Lab) Nagpur
5 KVA / 98 V



VRL Logistics Ltd, Waluj, Aurangabad
20 KVA / 240 V

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 more companies for kilowatt projects and have over 250 KW+ installations to our credit.

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