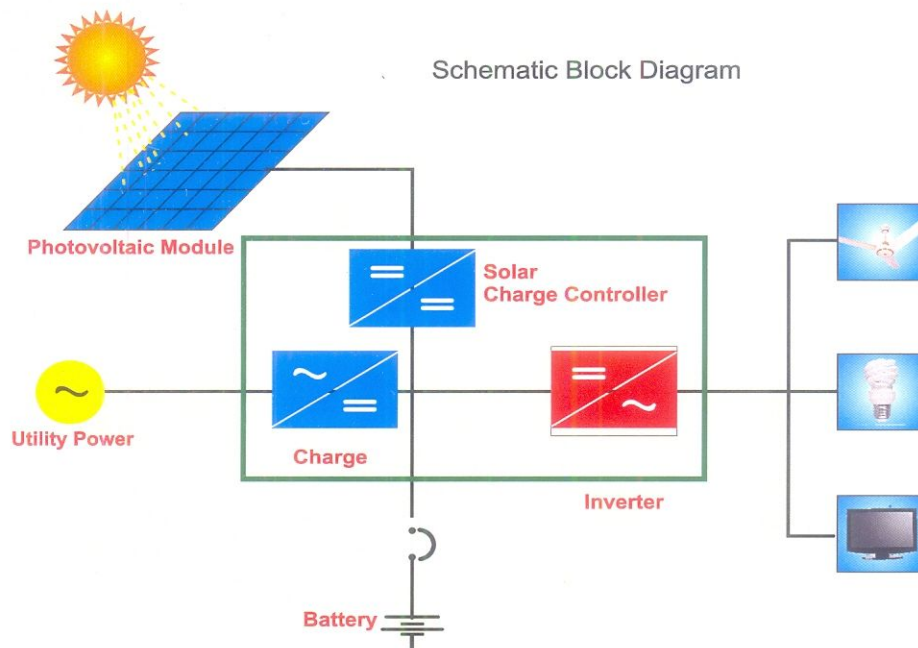


POWERLINE™

Vitronics Controls
An ISO 9001- 2008
Certified OEM Company



Solar Hybrid Inverter (Power Conditioning Unit)



- a) 400 va to 3 Kva with built in solar charge controller
- b) 3 kva & above Solar on Line UPS along with Solar Charge Controller
- c) Solar & Grid Sharing Intelligent Solar Inverter

Solar Hybrid inverters (Power Conditioning Unit)

A solar Hybrid Inverter (PCU) can benefit the home in a variety of ways. Depending on the size, it can allow an establishment to remain unaffected in the event of a power failure. It can also be used to simply cut the costs of daily energy use. Ideal for usage in Homes, shops, Hospitals, Banks, Schools, etc.

The Power Conditioning Unit, ensures maximum utilization of solar by prioritizing the control process. The panels usually bigger in size charges the battery enough to take care of not only backup during power failure; but also the entire load during night. The inverter automatically disconnects the EB/mains power supply and the inverter supplies the entire power to the load, saving electricity.

Working of solar hybrid inverter

During the day initially the Solar energy is utilized for charging the Battery, load will be on the Grid until battery gets charged up to 90% of its capacity, once it reaches this level, load will get transferred to the inverter, Grid will get disconnected, load will be shared with the available solar energy & battery (as solar energy will keep charging the battery hence the balance will go to load until the battery gets fully charged).

In case the Solar energy declines, power to the connected load will be shared between Solar & Battery, once the battery gets discharged to the set level, the load will automatically gets transferred to the Grid.

PARTICULAR	RATING / DC VOLTAGE	PANEL WATTAGE REQUIRED	PANEL COMBINATION
nGreen 400	400 va/12 V	300 Wp	100 Watt X 3 All Parallel
nGreen 600	600 va/12 V	500 Wp	100 Watt X 5 All Parallel
nGreen 800	800va / 12 V	600 Wp	100 Watt X 6 All Parallel
nGreen 1000	1Kva / 24 V	800 Wp	200 Watt X 4 All Parallel
nGreen 1500	1.5 Kva / 24 V	1200 Wp	200 Watt X All Parallel
nGreen 2000	2Kva/ 48 V	1600 Wp	200 Watt X 8. 2 Panel in Series & Such 4 Banks of panels All Parallel
nGreen 2500	2.5 Kva /48 v	2000 Wp	200 Watt X 10 2 Panel in Series & Such 5 Banks of panels All Parallel
nGreen 3000	3 Kva / 48 v	2400 Wp	200 Watt X 12 2 Panel in Series & Such 6 Banks of panels All Parallel
Solar On Line UPS Along with Solar Charger			
nGreen 5000 online solar UPS	96 v	4000 Wp	200 Watt X 20 4 Panel in Series & Such 5 Banks of panels All Parallel
nGreen 7500 online solar UPS	120 v	4800 Wp	200 Watt X 24 6 Panel in Series & Such 4 Banks of panels All Parallel
nGreen 10000 online solar UPS	240 v	8000 Wp	200 Watt X 40 10 Panel in Series & Such 4 Banks of panels All Parallel



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