

# AN ENLIGHTENED ENERGY CHOICE



## SUN TECHNOLOGIES



### ROOF TOP SOLAR POWER PLANT

Roof Top Solar Power Plant is suitable for residential applications such as Home appliances, Lighting, Computers and water pump. This consists of solar PV Modules Connected to Solar Charge Controller, Inverter and battery bank. The Charge Control Unit controls the over charging and deep discharging of the battery. Inverter convert the DC voltage to 230 V AC with 50 Hz Frequency. The generated DC Power is stored into battery and converted to AC Power for supplying to AC loads. This system may also be connected to grid supply such that in case of lack of power from sun, additional power may be drawn from the grid.

#### Features:

- 1KW to 100 KW peak AC power
- Tilted for optimal energy production
- Mounted on raised steel structure
- Grid-connected
- Modular construction
- Scalable up to 100 kW
- Remote Monitoring System



## Solar-Wind Hybrid Power Plant

SUN TECHNOLOGIES always recommends hybrid plants, because they further increase reliability and efficiency of a Renewable Energy, while cost is drastically reduced. Dealers and installers who are currently supplying solar PV systems have to either increase the size of PV array or the size of the battery bank to meet the demand, by using Wind into a Solar system one can reduce the size of battery as well as additional PV component. Wind is an ideal complimentary power source for any existing or New PV system installations.

Wind speeds are often low in periods (summer, eventually) when the sun resources are at their best. On the other hand, the wind is often stronger in seasons (the winter, in many cases...) when there is less sun resource. That can make solar-wind hybrid solutions an alternative to consider. Even during the same day, in many regions worldwide or in some periods of the year, there are different and opposite wind and solar resource patterns. And those different patterns can make the hybrid systems the best option for electricity production. Hybrid roof top power plants in the range of 1 KW to 10 KW for House/ Industrial buildings/ Commercial complexes/ Government buildings are targeted.



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