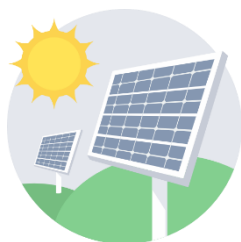


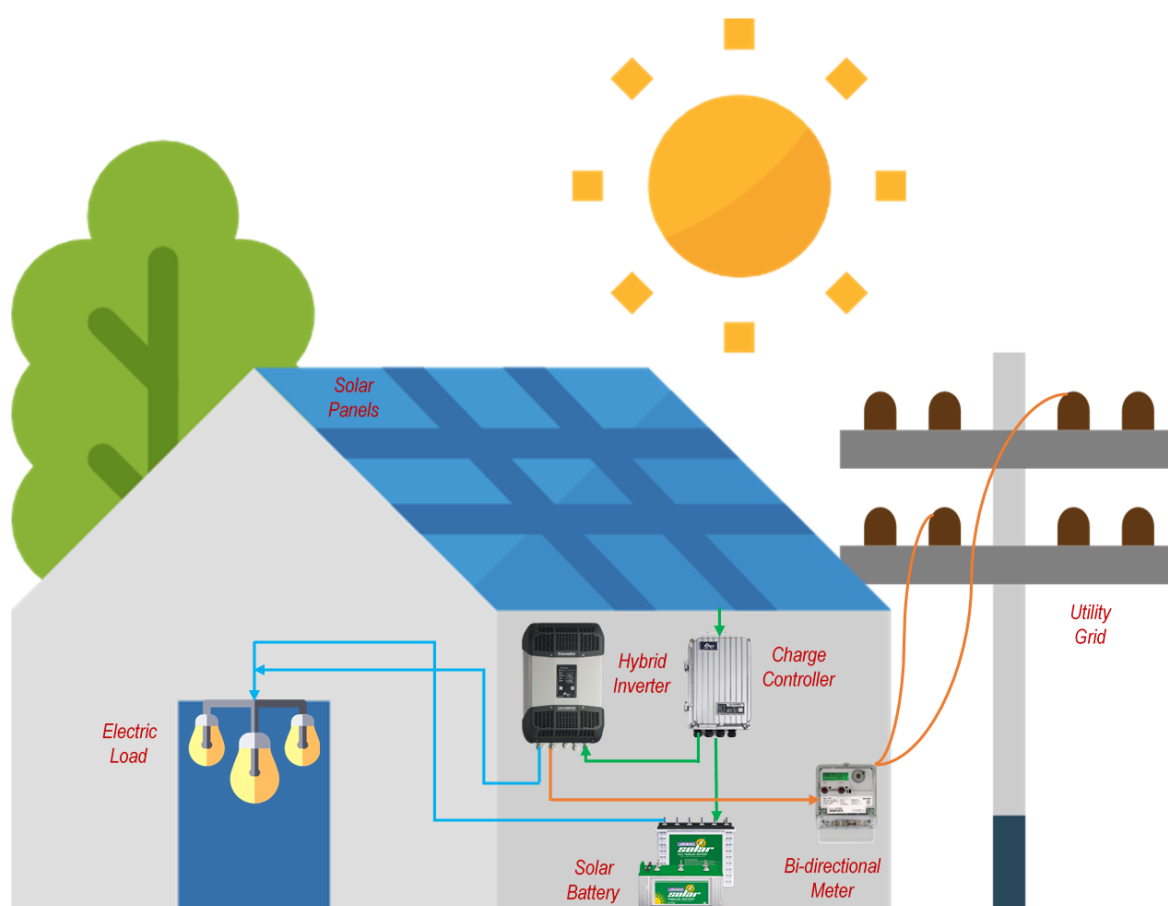


HINREN ENGINEERING
Engineering a green planet



Rooftop Solar Photovoltaic (PV) Plant

Grid Connected Hybrid Solar PV System



A hybrid system optimises multiple sources of power:

- **During the sunshine hours**, the loads are powered by Solar power directly and excess power generated charges the battery, further excess if any, will be exported to the grid.
- **Grid failure during the sunshine hours**, loads will get its power from the solar panels directly and if there is any shortage on power, the balance power will be drawn from the battery.
- **During the Non-sunshine hours**, the loads can be powered by either grid or by battery or by the combination of both.
- **Grid failure during the Non-sunshine hours**, the loads will be powered by batteries alone.



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Features

Easy Wall Mounting

Least No
load Loss

Small foot print

High conversion
efficiency of 95%

Auto no load Shut
down

Low frequency
inverters with
transformers

Auto load
detection and
restart

High surge handling
capacity



Grid Fluctuations and Grid
Variations do not effect
the inverter output



Clean and green energy
right from the roof



Grid availability is
not required for
working



ZERO or NEGATIVE
Electricity bills



Work both as off-grid and
Grid connected system



Aesthetically
pleasing on the roof



Accelerate depreciation
of 40% is available



Stable and reliable
power



Highly Programmable to suit
the load requirements



Can be built to
accommodate horizontal
and vertical garden



Excess energy can be
sold to Power Utility
Company (DISCOM)



Keeps the roof
cool



Controls Battery Discharge
and extends Battery life

Benefits



NSIC
CERTIFIED CO.

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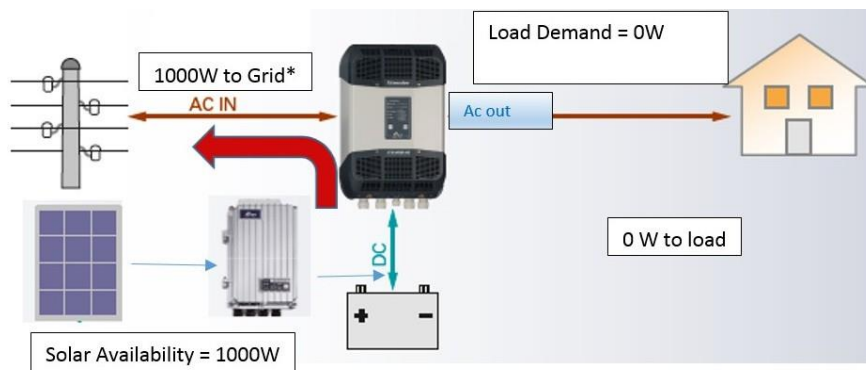
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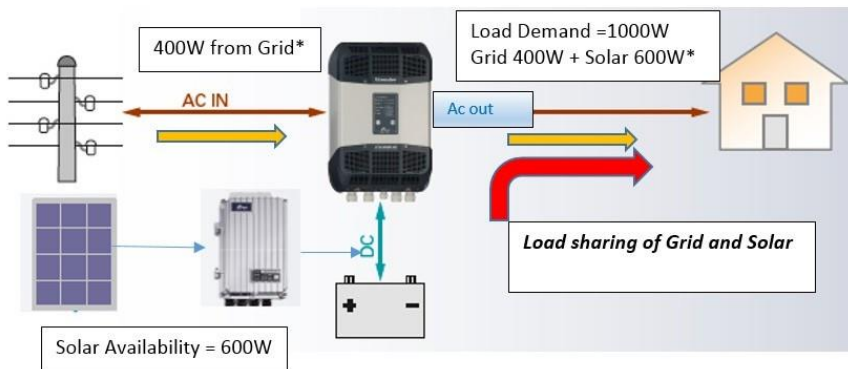
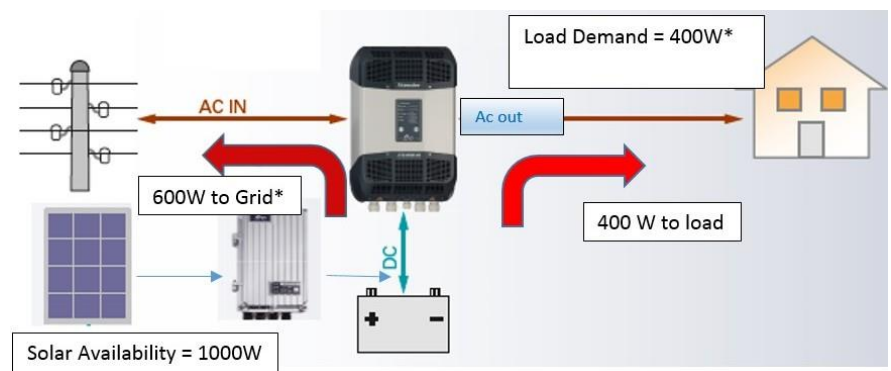


Possible Conditions



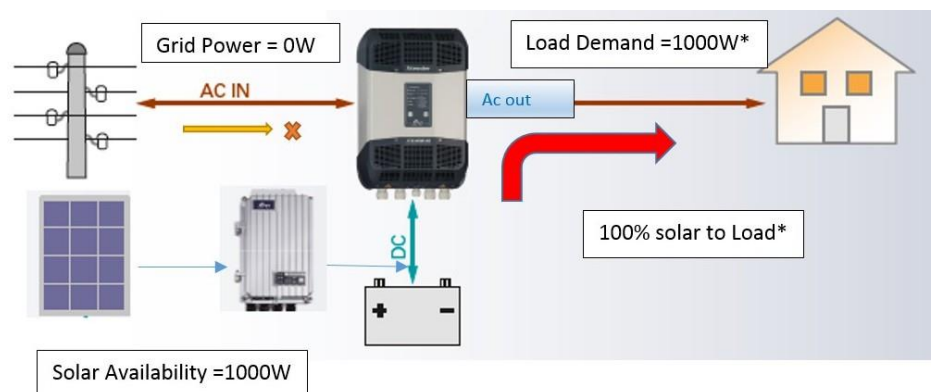
Solar: Present
Grid: Present
Load: Nil

Solar: Present
Grid: Present
Load: Lower than Solar Production



Solar: Present
Grid: Present
Load: Higher than Solar Production

Solar: Present
Grid: Present
Load: Equal to Solar Production



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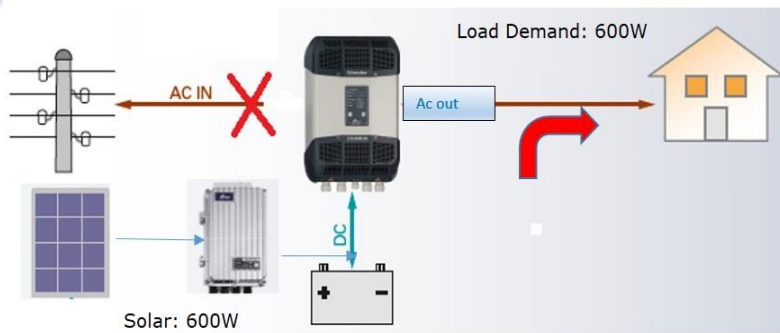
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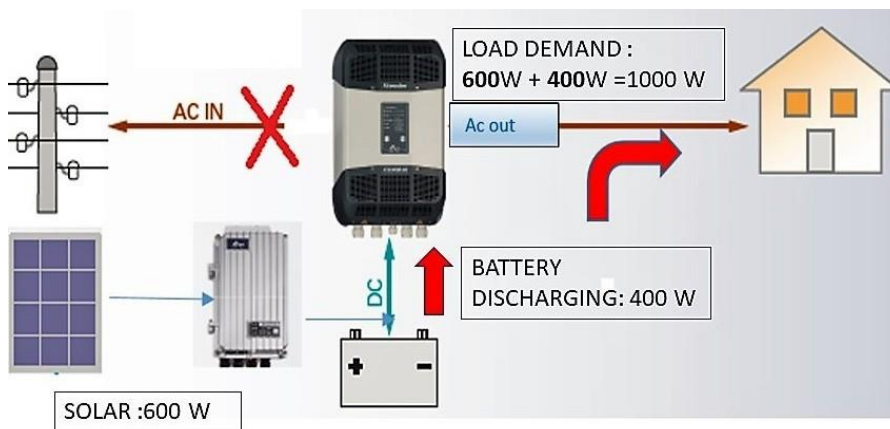
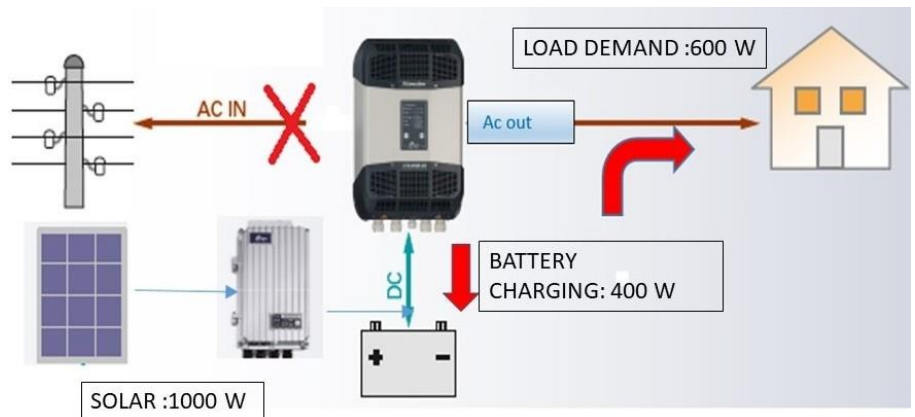


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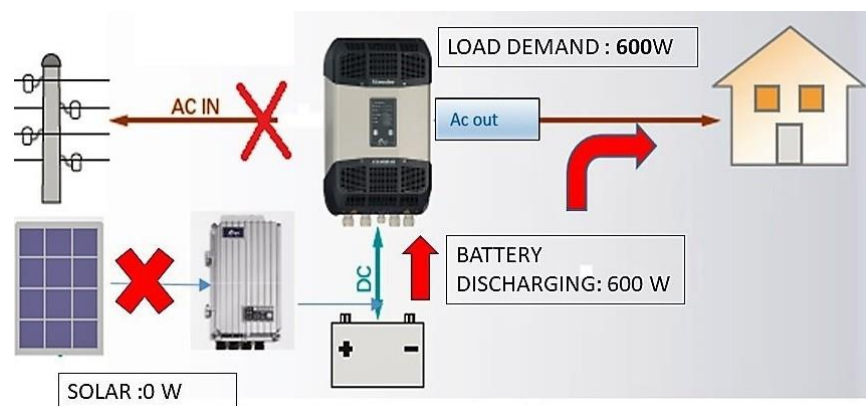
Solar: Present
Grid: Absent
Load: Equal to Solar Production

Solar: Present
Grid: Absent
Load: Lower than Solar Production



Solar: Present
Grid: Absent
Load: Higher than Solar Production

Solar: Absent
Grid: Absent
Load: Lesser or Equal to Battery Capacity



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