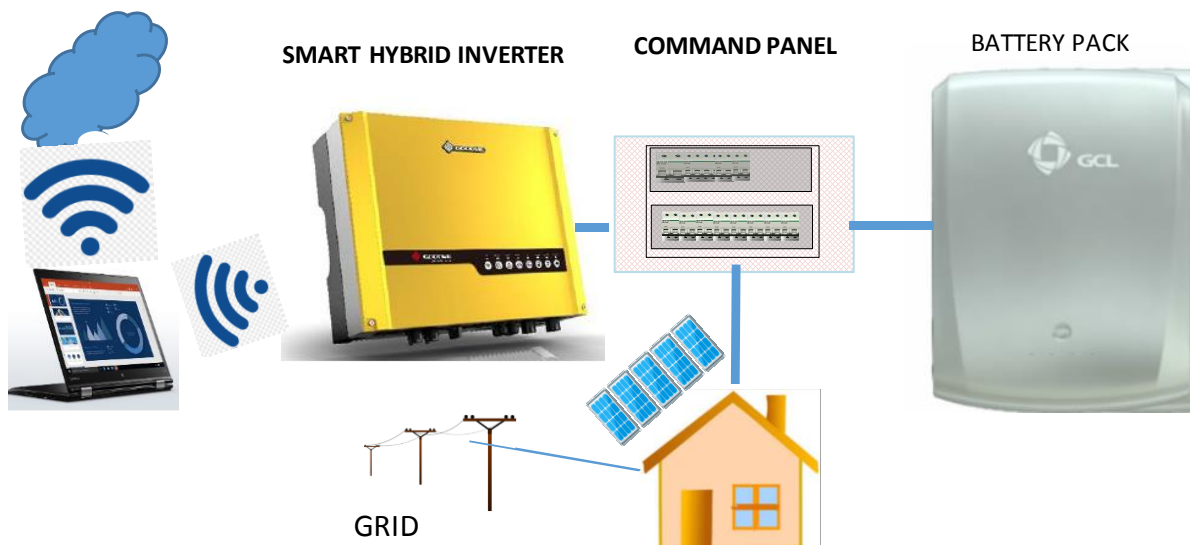


What is HPOWER 247 Energy Storage System?

HP 247 is an Integrated Renewable Energy Storage System. It is an intelligent technology that gives you the power to store, monitor and manage your home or commercial energy usage all in a compact and modular unit. A Smart Hybrid Inverter and a lithium battery pack form the backbone of HP 247.

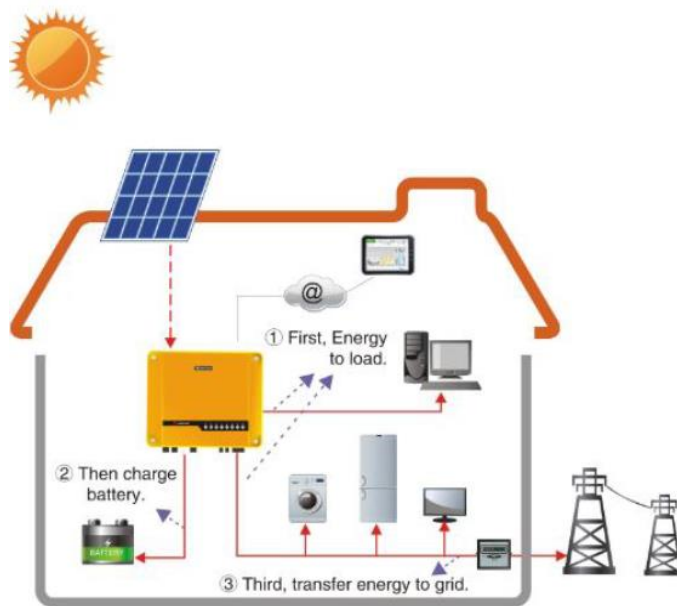
The core feature of the HP 247 Lithium storage system is the intelligent charging and discharging Algorithms, which ensure optimal flow of energy.

The Smart Hybrid inverter with features like grid interactive functionality, Automatic Backup and export control limit setting is the heart of the energy management system and APP controlled. The data monitoring is done through portal and APP.



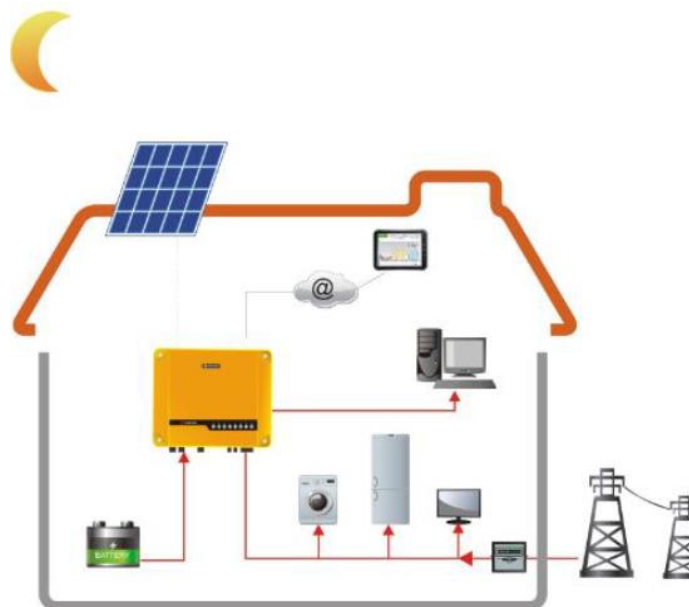
How HP 247 Works:

Morning-Noon:



The PV system starts to generate power and excess solar power is used to charge batteries after satisfying the loads.

Evening-Night:



The HP 247 storage system will provide the short fall and no supply from Grid until the Battery is at 20% SOC after will draw from the grid.

Grid Fails:



The Backup inverter output will switch in less than 5ms and will provide energy as long as the battery bank charge is more than 20%.

Specifications

Technical Data of Smart Hybrid Inverter System

Nominal AC Power: 4.6KW

Nominal AC Output : 50/60Hz; 230Vac

Peak Efficiency: 97.6%

Max PV Input: 6000W

Max PV Input Voc, MPPT Range: 580V, 120~550V

Operating/Storage Temperature: -25°C ~ 60°C / (>45 Derating)

Operating Humidity: 0~95%RH Non-Condensing

Dimension: 516*440*184mm

Weight: 30Kg

Technical Data of Lithium Battery Pack

Manufacturer of Battery Module: GCL

Capacity: 5.6KWh Usable

Warranty: 7 Years (Daily Cycle)

Rechargeable Battery Technology: Lithium Ion

Protection Mode: Triple Hardware protection

Operating/Storage Temperature: -20°C ~ 45°C / (>45 Derating)

Dimension: 700*530*172mm

Weight: 45Kg

Advantages:

- ✓ Low maintenance
- ✓ Small footprint- Wall mountable
- ✓ Low Levelized cost of Energy over life span of Battery
- ✓ Modular- Battery Capacity can be added when required
- ✓ Monitor energy usage through APP or Portal
- ✓ Low carbon footprint

Benefits of HP 247:

- ✓ Provides uninterrupted power supply during blackouts/brownouts
- ✓ Reduces your electricity bill and reliance on the grid
- ✓ Reduces your use of diesel consumption during power cuts
- ✓ Reduces harmful carbon emissions
- ✓ Increases self-consumption of solar energy

Applicable to:

- ✓ Residential Villas
- ✓ Holiday Resorts
- ✓ Commercial establishments
- ✓ Hospitals
- ✓ Medical Centers
- ✓ Banks
- ✓ Colleges/Universities
- ✓ Offices
- ✓ Data centers