125KW/261KWh PV-diesel-storage hybrid system

Improve Energy Efficiency and Power Output

Features & Characteristics

- An intelligent dispatch strategy with PV priority, storage regulation, and diesel backup.
- Fully sealed and isolated electrical system. Independent cooling ducts for PCS, PV modules, and STS. Equipped with air conditioning tailored to the application scenario, ensuring high protection, maintenance-free operation, and long service life.
- Capable of sustaining prolonged high-power output and operating reliably in extreme weather conditions, including high temperatures and humidity.
- High expandability and compatibility, supporting the integration of charging guns or recharging sockets.
- Enhanced safety features, with the unit equipped with a Novec 1230 fire suppression system and smoke/heat detectors.
- The energy storage system features seamless switching functionality, ensuring no power interruption on the load side after the diesel generator is shut down.
- Communication capability between the energy storage system and diesel generator enables control over the generator's startup/shutdown and power adjustment.

Application Scenarios

Infrastructure Construction

Energy Mining

Remote Villages Islands

Military Theater Operations

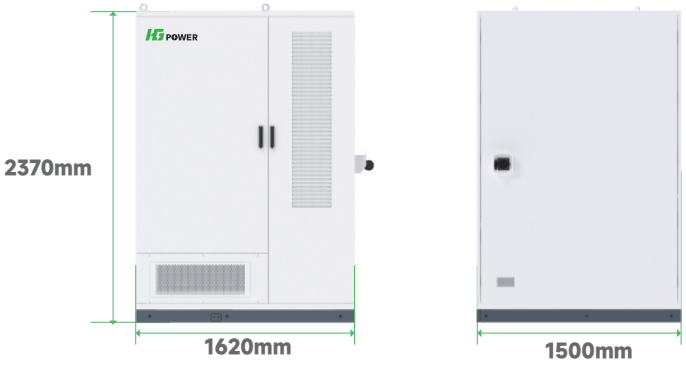
Emergency Backup Power

Commercial Activities

Product Advantages

Core Parameters

Capacity	261kWh
Battery Voltage Range	728-949Vdc
Charging Power of GB Standard Port	125kW
Generator Input Power	100kW
PV Input Power	125kW
Maximum Output Power to Load	100kW
Generator Input Voltage	400±15%VAC
PV Input Voltage	200~750Vdc
Output Voltage to Load	400±15%VAC
Operating Frequency	50Hz
Charge C-rate	0.5C
Discharge C-rate	0.5C
Depth of Discharge (DOD)	≤95%
Nominal Voltage	3.2V
Cell Configuration	1P52S
Pack Voltage Pack	1666.4V



PACK Weight	350kg
Cycle Life	＞6000time
Operating Temperature	-20~50℃
Noise Level	<65db
Ingress Protection (IP) Rating	IP54
Cell Chemistry	3.2V/314Ah
Nominal Energy	52.2kwh
Overall Dimensions	1620*1500*2370(mm)
Total Weight	3.5t