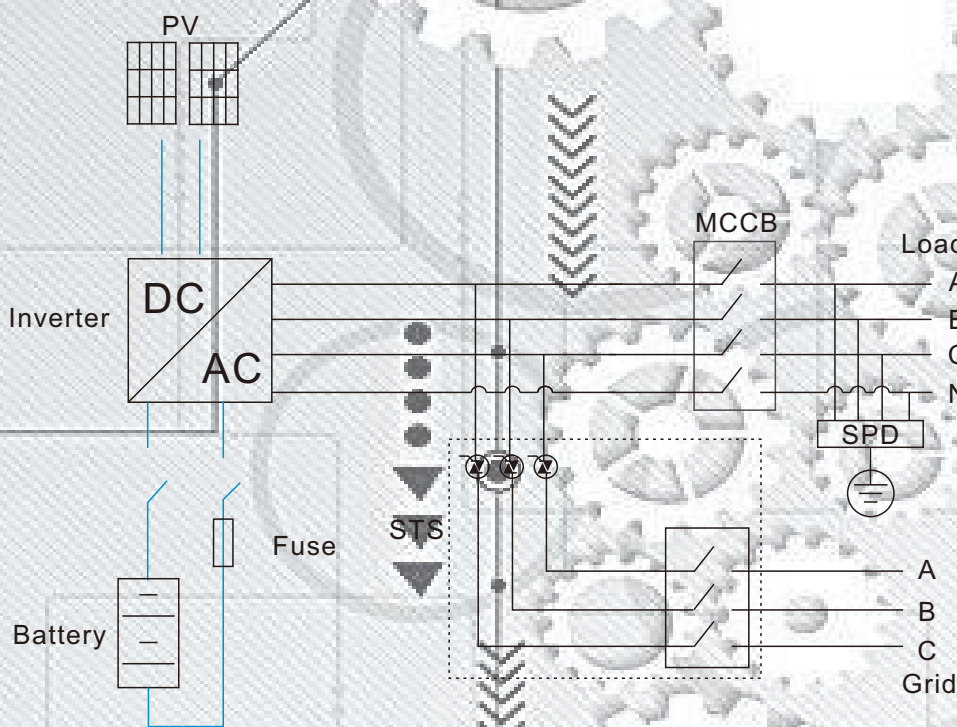




PALMBRI
GREEN ENERGY INDUSTRY

60kW/126.7kWh PV + Hybrid Inverter BESS System



The PV+Hybrid inverter BESS integrated liquid cooling battery pack, battery management system BMS, energy management system EMS, hybrid inverter and fire protection system. The system can be combined with photovoltaic power generation to form a grid-tied solar with energy storage system. Multiple systems can be connected in parallel for flexible expansion. The system is suitable for a variety of applications such as , on-grid/off-grid solar energy and storage system, backup power supply, and solar-diesel-microgrid system.

Hybrid Inverter

PV Input

Max. DC Voltage [V]	1100
Starting Voltage [V]	250
MPPT Voltage Range [V]	250~1000
Fullload MPPT Voltage Range [V]	375~850
MPPT Max.Input Current [A]	45
MPPT Input Strings	3+3+3+3
No. of MPPT	4

Battery Input

Max. DC Bus Voltage [V]	900
Max. DC Current [A]	110
DC Voltage Working Range [V]	600~900
DC Voltage Ripple Coefficient	2%
Rated Power [kW]	60

AC Output

Max. Power Output [kW]	66
Reactive Power Range [kVA]	0~60
Rated Grid Voltage [V]	400

On-Grid Operation

Allowable Grid Voltage [V]	304~440
Rated Grid Frequency [Hz]	50/60
THDi	3%
Power Factor	-1~1
Power Response [ms]	<20
Rated Output Voltage [V]	400

Off-Grid Operation

Voltage Deviation	2%
Rated Output Frequency [Hz]	50

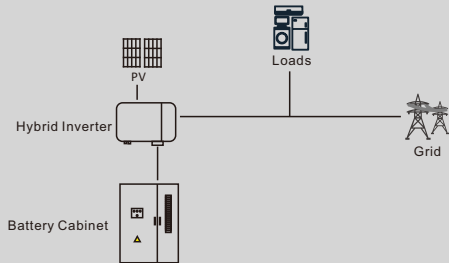
THDi	3%
General	
Ambient Temperature [°C]	-40~60
Relative Humidity	0~100%
Noise [dB]	59
Dimensions W*H*D [mm]	800*680*330
Weight [kg]	95
Ingress Protection	IP65
Cooling Method	Smart Air Cooling
Insulation Resistance	1MΩ
Communication Interface	Ethernet, RS485
Battery	
Nominal Capacity [Ah]	150
No. of Pack	11
Configuration	1P264S
Rated Energy [kWh]	126.7
Rated Voltage [V]	844.8
Operating Voltage Range [V]	739.2~937.2
Dimensions D*W*H [mm]	805*960*2303
Charging/Discharging Temperature [°C]	20~30
Cooling Method	Air Cooling
Ingress Protection	IP20

List of Equipment

NO.	Name	Recommended model/ Specifications	QTY	Remark
1	Hybrid Inverter	60kW, 4MPPT, 110% overloading	1	
2	Battery Cabinet	126.7kWh, 1P264S, 844.8V, Air cooling	1	
3	Switch Cabinet	-	1	
4	EMS	-	1	
5	PV Panels	Configured based on the capacity requirements	-	Customer's scope of supply

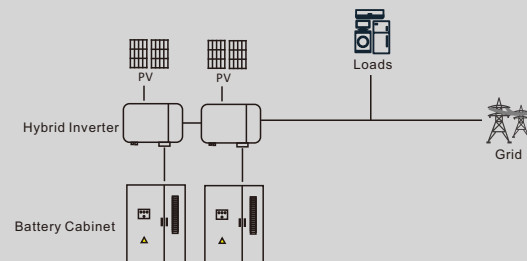
Grid-connected scenario

A grid-connected BESS offers the ability to capture and store electrical energy when the demand is low and provide electricity when the demand is high. This ability allows the business to operate more efficiently and sustainably.



Parallel connection scenario

The BESS connected in parallel allows for easier scalability, additional BESS can be added or removed without affecting the existing system. With the parallel connection, the system is able to have more flexibility in terms of system design and operation.



Microgrid scenario

Combining with solar or diesel generator, the system can become a local energy production and distribution network that can function independently when there is no access to grid.

