ZHIGUANG

60kW/126.7kWh

PV + Hybrid Inverter BESS Solutions

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.

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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 Coe cient	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

Microgrid scenario