90kW/215kWh
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

ZHIGUANG

Hybrid Inverter

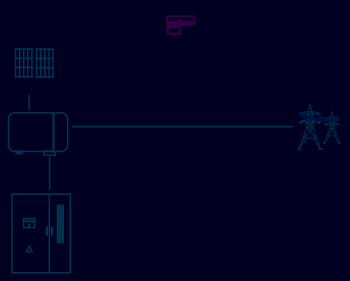
PV Input	
Max. DC Voltage [V]	1100
Starting Voltage [V]	250
MPPT Voltage Range [V]l	250~1000
Fullload MPPT Voltage Range［V］	450~850
MPPT Max.Input Current [A]	65
MPPT Input Strings	5+5+5+5
No. of MPPT	4
Battery Input	
Max. DC Bus Voltage [V]	900
Max. DC Current [A]	165
DC Voltage Working Range [V]	600~900
DC Voltage Ripple Coe cient	2%
Rated Power［kW］	90
AC Output	
Max. Power Output [kW]	99
Reactive Power Range［kVA］	0~90
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
O -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]	280
No. of Pack	5
Configurationt	1P240S
Rated Energy [kWh]	215
Rated Voltage [V]	768
Operating Voltage Range [V]	672~864
Rated Charging/Discharging Power [kW]	107
Weight [kg]	2500
Dimensions D*W*H [mm]	1300*1300*2300
Operating Temperature [°C]	-20~55
Cooling Method	Liquid Cooling
Ingress Protection	IP66

List of Equipment

NO.	Name	Recommended model/ Specifications	QTY	Remark
1	Hybrid Inverter	90kW, 4MPPT, 110% overloading	1	
2	Battery Cabinet	215kWh, 1P240S, 768V, Liquid 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