90kW/215kWh
PV + Hybrid Inverter BESS Solutions

he PV+Hybrid inverter BESS integrated liquid cooling battery pack, battery management system BMS, energy management system EMS, hybrid inverter and

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Hybrid Inverter

PV Input	
Max. DC Voltage [V]	
Starting Voltage [V]	
MPPT Voltage Range [V]l	
Fullload MPPT Voltage Range［V］	
MPPT Max.Input Current [A]	
MPPT Input Strings	
No. of MPPT	
Battery Input	
Max. DC Bus Voltage [V]	
Max. DC Current [A]	
DC Voltage Working Range [V]	
DC Voltage Ripple Co] ᵥ V ϟ	

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

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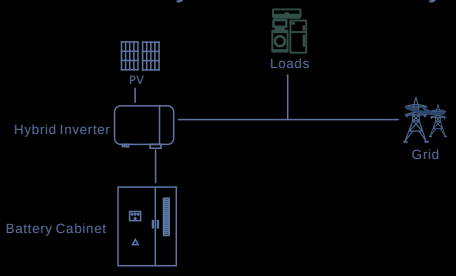
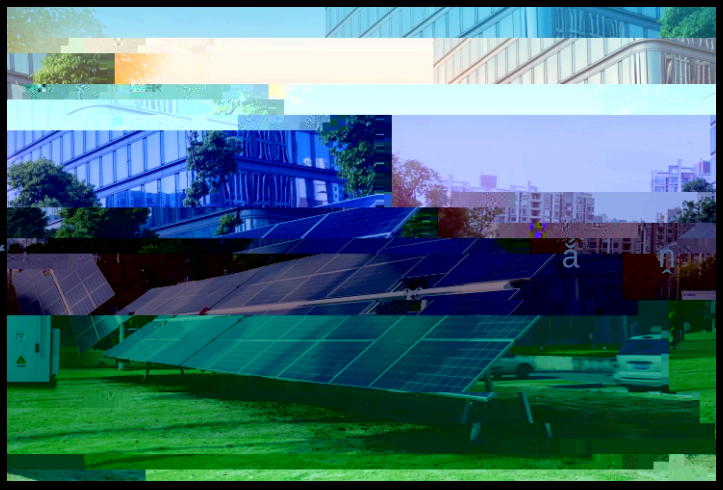
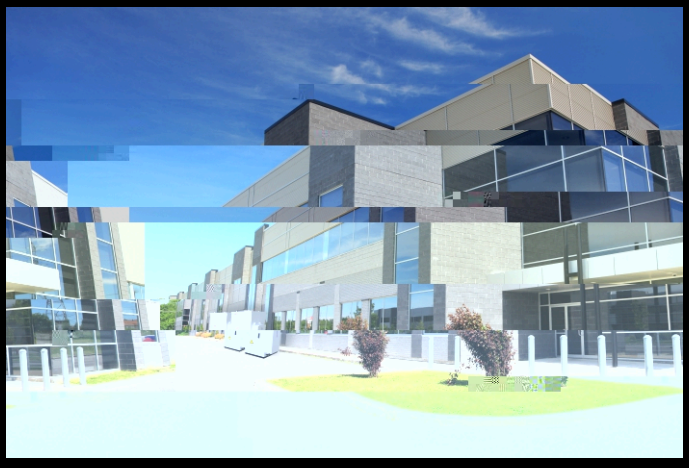
Grid-connected scenario

A grid-connected BESS o ers 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 e ciently and sustainably. ɑ







Parallel connection scenario

The BESS connected in parallel allows for easier scalability, additional BESS can be added or removed without a ecting 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.