

ESS125kW/261kWh

This is a versatile solution applicable to charging stations, factories, industrial parks, and commercial buildings. Designed for power storage, models ESS 261 enable emergency power during outages, peak-load shifting, surplus energy trading, and virtual capacity enhancements. Boasting a high-density, modular design, this energy storage system minimize spatial needs, enhance transportability, and simplify installation and maintenance, ensuring top efficiency from deployment through operation.

Intelligent Efficiency

- All-in-one Design, Space Saving
- Highly Consistent LFP Battery, High Energy Density
- Cluster-level Battery Management, Improve Energy
- Utilization Smart Temperature Control, 8000+ Battery Long Cycles

Save Cost, Scale Flexibly

- Scalable up to MWh
- 1.35m² Footprint, Flexible Deployment & Dispatch 3-in-1
- Integrated, Factory Configured & Tested
- Global Fast Delivery, On-Site Rapid Response

Intelligent Management and Application

- Supporting Grid-connected and Off-grid
- Self-Diagnosis and Remote OTA



PRODUCT STRUCTURE

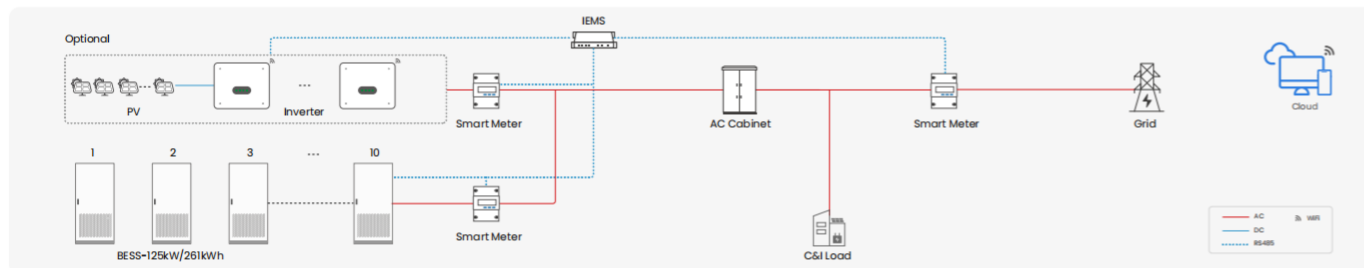


ESS-125kW/261kWh

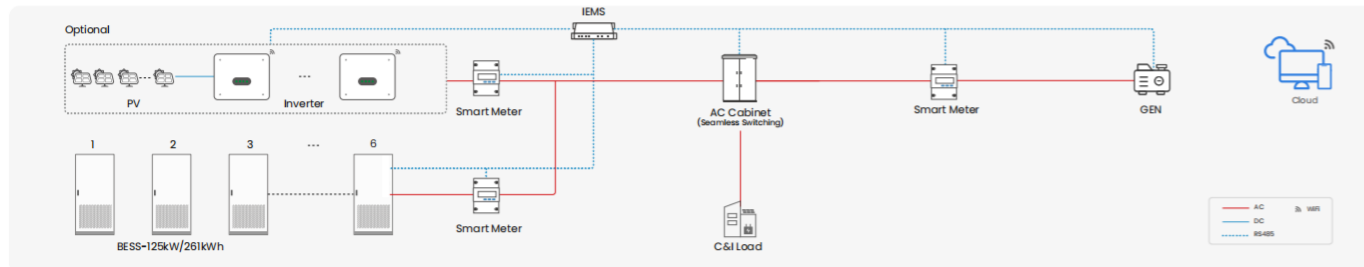
ESS

TYPICAL APPLICATION SCENARIOS

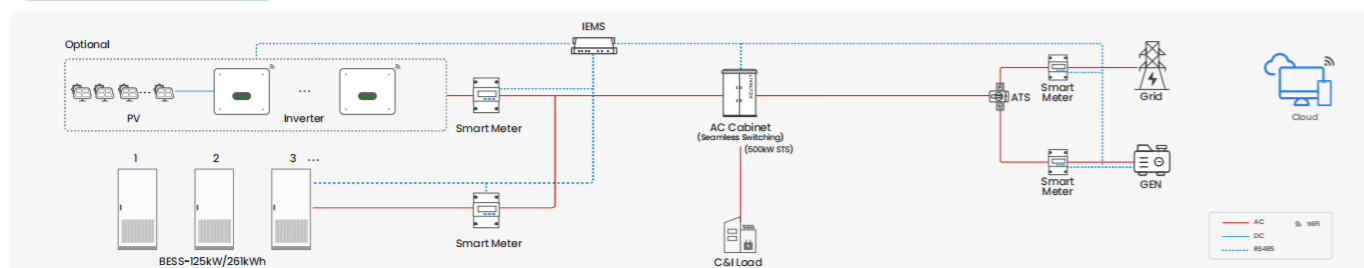
On-grid PV+ESS Solution • Up to 10 units in parallel



Off-grid PV+ESS Solution • Up to 6 units in parallel



On/Off-grid PV+ESS Solution • Up to 3 units in parallel (Seamless switching)



Model	ESS-125kW/261kWh
Battery Parameters	
Nominal DC Voltage	832 V
Battery Voltage Range	728~ 936V
Battery Type	LFP 314 Ah
Battery Module Specification	1P52S 166.4V 314Ah 52.2kWh
Number of Packs	5
Total Energy	261.2 kWh
Nominal Power	125kW
Max. Power	137.5kW
Rated Charge/Discharge Current	157 / 157 A
Depth of Discharge	Max. DOD:100%; Recommend DOD:90%
Operating Temperature	Charge: 0 ~ 55°C; Discharge: -20 ~ 55°C
AC Parameters @On-grid	
Rated AC Power	125 kW
Max. AC Output Apparent Power	137.5 kVA
Rated Output Voltage	3L/N/PE, 3L/PE, 220/380V, 230/400V
Rated AC Frequency	50±5 / 60±5 Hz
Adjustable Power Factor Range	-1(leading)---1(lagging)
Rated AC Current	180.4 A
THDi(Rated power)	<3%
AC Parameters @Off-grid	
Rated AC Power	125 kW
Max. Output Power	137.5 kW
Rated Output Voltage	3L/N/PE, 3L/PE, 220/380V, 230/400V
THDv (linear load)	±2%
General	
System Efficiency	88%
Dimension (W*H*D)	1055*2300*1300mm
Weight	2650 kg
Operation Temperature	-20 ~ 55 °C (derating at 40°C)
Relative Humidity	5% ~ 95%
Max. Operating Altitude	2000m
Cooling	Battery: Liquid Cooling; PCS: Fan Cooling
Ingress Protection	IP54
Anti-corrosion Level	C4
Fire Protection	Aerosol, PACK-level fire protection, Pressure relief
Topology	Non-isolated
Communication Interface	RS485 / CAN
Certificates and Approvals	IEC 61000, IEC 62619, IEC 63056, IEC 62477, RoHs, UN38.3

ENERGY STORAGE PCS MODULE

PCS

EPCS125-AM

Model	EPCS125-AM
DC Input	
Battery Voltage Range	615~ 950 V(3W+PE)/650 ~950 V(3W+N+PE)
Max. Current	203A
AC Output [On-grid]	
Rated AC Output Power	125 kW
Max. AC Output Apparent Power	137.5 kVA
Rated Output Current	180.4 A
Rated AC Voltage	3L/N/PE, 3L/PE, 220/380V, 230/400V
AC Frequency Range	50±5 / 60±5 Hz
Power Factor	-1 ~ 1
THDi (Rated Power)	<3%
AC Output [Off-grid]	
Rated AC Power	125 kW
Max. Output Power	137.5 kW
Unbalanced Load Capacity	100%
Rated AC Voltage	3L/N/PE,230/400 V
THDv (linear load)	±2%
Efficiency	
Max. Efficiency	99.00%
Euro. Efficiency	98.50%
Protection	
Anti-islanding Protection	Integrated
DC Short Circuit/Over Current Protection	Integrated
AC Short Circuit/Over Current Protection	Integrated
Over/Under Frequency Protection	Integrated
Over/Under Voltage Protection	Integrated
Insulation Resistance Monitoring	Integrated
Over Temperature Protection	Integrated
DC Reverse-polarity Protection	Integrated
General Data	
Operating Temperature	-30~ +55 C (>45 C Derating)
Ingress Protection	IP20

BATTERY PACK MODULE

BATTERY

Model	
Cell Type	LFP
Battery Configuration	1P52S
Nominal Voltage	166.4 V
Operating Voltage Range	145.6~ 187.2V
Rate Capacity	314 Ah
Cell Specification	3.2V 314Ah 1004.8Wh
Number of Cells	52
Total Energy	52.2 kWh
Usable Energy	49.0 kWh
Rate Charge/Discharge Current	157 / 157 A
Depth of Discharge	Max. DOD:100%; Recommend DOD:90%
Cooling	Liquid Cooling
Operating Humidity	5%~95%
Cycle life	8000 (25 °C ±2 °C 0.5C /0.5C, 70%EOL)