

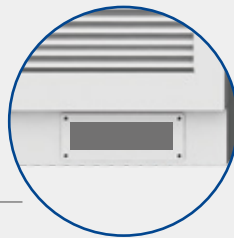
LSHE Commercial BESS

CP Series - Air cooling

The LSHE CP series BESS include energy storage battery packs, BMS, PCS, EMS, air conditioner, fire protection, pipeline, power distribution and other components integrated all in one. Highly integrated modular, expandable, and rapidly deployable, dedicated for distributed industrial and commercial side use.



Front



Forklift Handling



Back



Highly Integrated Design

With battery, BMS, PCS, EMS, air conditioner, fire protection, pipeline and other components all in one, highly integrated design.



Flexible and Expandable

Support maximum 10 units for parallelizing, to meet various capacity demand.



Multiple Working Modes

Including peak-cutting and valley-filling, new energy accessing, EPS, on/off grid use and etc.



Seamless Switch

Seamless switch between On-grid & Off-grid use.



Safety Assured

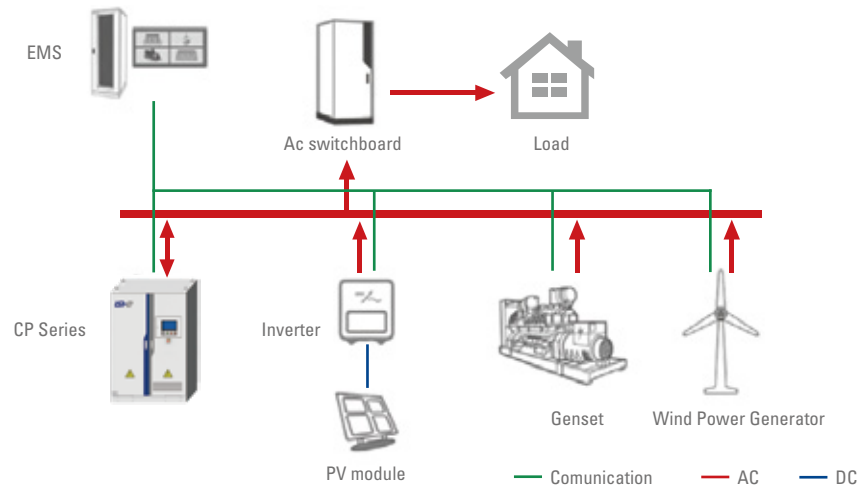
Constant temperature in cabinet $25^{\circ}\text{C}\pm 3\%$ and with fire protection to double assure safety.



Smart Management System

Support LSHE Web for intelligent operation and maintenance, online remote and real-time monitoring.

System Layout



Specifications

System Model	CP50	CP100
Battery System Parameters		
Battery Cell	LFP 3.2V/120Ah	LFP 3.2V/120Ah
Battery Pack	1P24S/9.216kWh	1P24S/9.216kWh
Battery System	1P144S/55kWh	1P264S/101kWh
Voltage Range	403.2~518.4Vdc	739.2~950.4Vdc
Total Capacity	55kWh	101kWh
AC Side Parameters (grid-connected)		
Rated Power	30kW (@50°C)	30kW/60kW (@50°C)
Maximum Output Power	33kW (@45°C)	33kW/60kW (@45°C)
Rated Voltage	400Vac (-15%~10%)	400Vac (-15%~10%)
Rated Grid Frequency	50/60Hz	
Power Factor	0.8 (lagging) ~ 0.8 (leading)	
THDi (%)	<3% (@rated power)	
Power Supply	3P+N+PE (optional)	
AC Side Parameters (off-grid)		
Rated Output Power	30kW	30kW/60kW
Rated Voltage	400Vac (-15%~10%)	400Vac (-15%~10%)
Rated Output Frequency	50/60Hz	
Overload Capacity	110% 10min (45°C), 120% 1min	
System Efficiency		
Maximum Efficiency	>97%	
Total System Efficiency	>87%	
Charge/Discharge Rate	≤0.5C, Peak power (@1C, 30s)	
General Parameters		
Dimensions (LxDxH)	1220x1145x1420mm	1250x1200x2000mm
Weight	1.1t	1.5t
Incoming Line	Bottom incoming line	
Operating Temperature	-35~55°C	
Environment Humidity	0~95%	
Altitude	≤2000m	
Protection Class	IP54	
Cooling Method	Air cooling	
Communication		
Communication	RS485/Ethernet	
Communication Protocols	Modbus-RTU/TCP	
Display	TFT LCD&Touch	
Support	Web	
Certificate		
Battery	IEC62619, IEC63056, IEC62477-1, IEC60730-1, EN61000-6-2/-4	
Grid-Connected	VDE-AR-N4105, CEI0-21, EN50549-10	

* For inquiring projects that LSHE made for evaluating, please contact us for details.