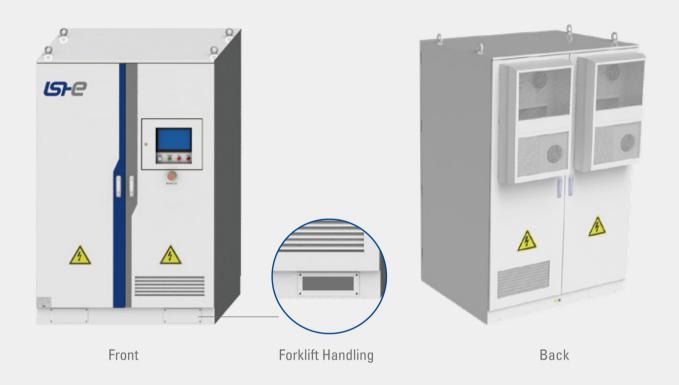


LSHE Commercial BESS

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.





Highly Integrated Design

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



Seamless Switch

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



Flexible and Expandable

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



Safety Assured

Constant temperature in cabinet 25°C±3% and with fire protection to double assure safety.



Multiple Working Modes

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

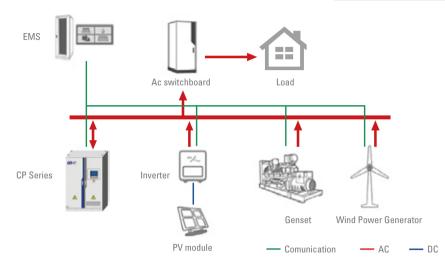


Smart Management System

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% (@ra | <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 | ≤ 2000 m | | |
| 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.