



**Air-cooling  
Intelligent All-In-One BESS  
CP100+ Plus**



# Energy Storage System Cabinet CP100 Series



CP100

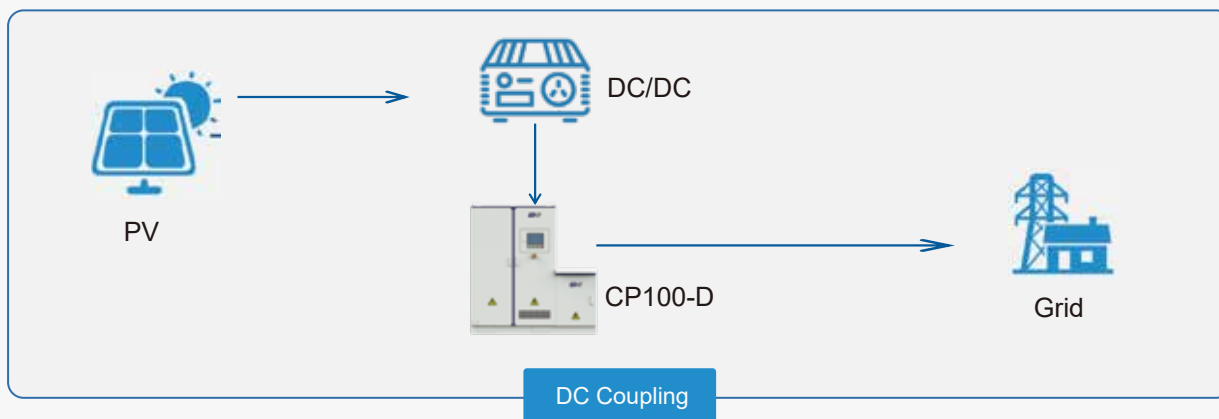
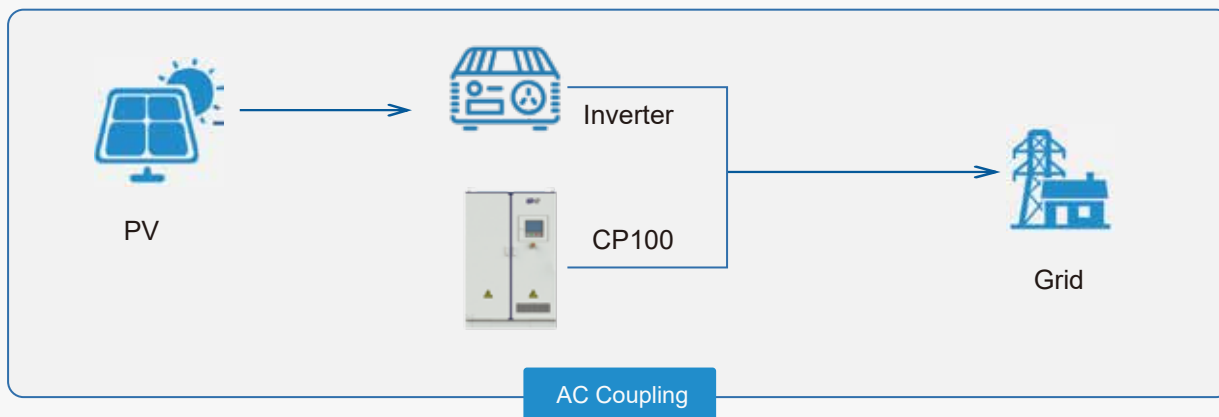
+DCDC Model



CP100-D

LSHE CP100/CP100-D BESS includes energy storage battery packs, BMS, PCS, EMS, air conditioning unit, fire protection, power distribution and other components integrated all in one. Highly integrated modular, expandable, and rapidly deployable, dedicated for distributed industrial and commercial side use. CP100-D is equipped with photovoltaic charging (DC/DC) modules and other components, which are applied to the microgrid scenario to form the solar ESS integrated system cabinet.





## Product Features

### High charge and discharge ratio

Support up to 1C charge and discharge ratio, more output and input power

### Support Multi-Parallel Connection and Intelligent Switching

Module design, support for parallel connection of multiple machines, power and capacity can be expanded

### Wide Voltage Range

Ultra-wide PV voltage range 180V-1000V, ultra-wide battery voltage range 220V-800V

### Safe and Reliable

IP54 protection level, all-aluminium body, built-in lightning protection and high precision leakage protection

### PV & Energy Storage System Integration

Integration of PV and energy storage, support for multiple batteries, integrated EMS intelligent energy management system

### Highly Efficient Power Generation

Instantaneous charge/discharge switching with high current to improve efficiency

# Technical Parameter

System Model		LSHE-CP100 / CP100-D
Battery Data		
Battery Cell	LFP 3.2V/120Ah	
Battery System	1P264S/101kWh	
Voltage Range	739.2~950.4Vdc	
Total Capacity	101kWh	
System Efficiency		
Maximum Efficiency	>97%	
Total System Efficiency	>87%	
Charge/Discharge Rate	≤1C	
General Parameters		
Dimensions (LxDxH)	1250x1200x2000mm	
Weight	1.5t	
Operating Temperature	-35~55°C	
Altitude	≤2000m	
Protection Class	IP54	
Communication Method	RS485/ Ethernet /4G	
AC Side Parameters (grid-connected)		
Rated Power	60kW/100kW (@50°C)	
Rated Voltage	400Vac (-15%~10%), 3P+N+PE (optional)	
Rated Grid Frequency	50/60Hz	
Power Factor	0.8 (lagging) ~ 0.8 (leading)	
THDi (%)	<3% (@rated power)	
AC Side Parameters (off-grid)		
Rated Output Power	60kW/100kW	
Rated Voltage	400Vac (-15%~10%)	
Rated Output Frequency	50/60Hz	
Overload Capacity	110% 10min (45°C), 120% 1min	
Certificate		
Battery	IEC62619, IEC63056, IEC62477-1, IEC60730-1, EN61000-6-2/-4	
Grid-Connected	VDE-AR-N4105, CEI0-21, EN50549-10	
DC/DC Module		
Rated power	50kW	
Max. power	55kW	
DC voltage operating range	200 ~ 1000V	
Full load voltage range of high voltage side	500~950V	
Max. current on high voltage side	110A	
Low voltage side full load voltage range	345 ~ 900V	
Max. current on low voltage side	80A*2	
low-voltage side input quantity	2(2independent, can be connected in parallel)	
Max. conversion efficiency	98.80%	

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