PCS-8811CB

Centralized energy storage system

Safe and reliable

- Original active safety strategy, composite battery protection criterion
- Multiple no-dead zone protection design, PCS and BMS millisecond-level fast protection
- Support module-level fire protection and various fire-fighting media, multi-dimensional fire perception and control system, fast and reliable linkage

High efficiency and low losses

- Adaptive control of battery container air conditioning, system cycle efficiency increased by 1.5%
- PCS three-level topology, maximum efficiency 99%

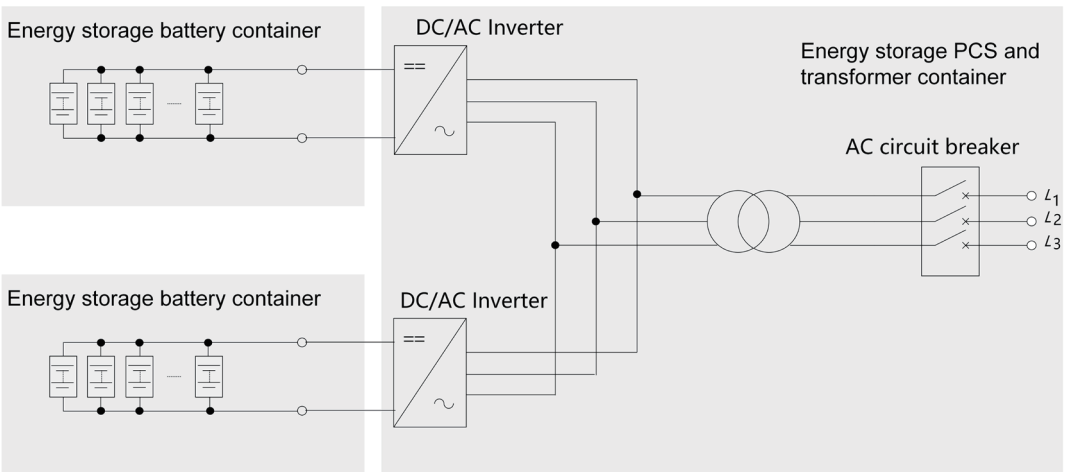
Power grid friendly

- Various control modes such as PQ and grid-forming, suitable for different application scenarios
- PCS/BMS all support IEC 61850 protocol and fast communication interface, with millisecond response
- Support fault recording to facilitate fault analysis and location

High Integration

- Integrated PCS, transformers, lithium batteries, communication cabinets, and other core equipment, delivered as a whole
- Battery container supports back-to-back or walk-in arrangements, with customizable unit power and capacity

Schematic diagram



Technical specifications

Type designation	PCS-8811CB-2500/5018	PCS-8811CB-3450/6881
Battery Data		
Battery capacity（kWh）	5018	6881
Cell Type	3.2V/280Ah	
System output voltage range (V)	1100~1460	1056~1401.6
Battery configuration	400S14P	384S20P
BMS communication Interface	RJ45	
BMS Communication protocols	Modbus-TCP, IEC 61850	
AC Side Data		
Rated power（kW）	2500	3450
Max output power（kVA）	2750	3795
Grid connection voltage range（kV）	6~35	
Nominal grid frequency（Hz）	50 / 60	
Allowable grid frequency（Hz）	45~55 / 55~65	
Max. THD of current	< 3%	
Charge and discharge conversion time	< 30ms	
Power factor at nominal power	> 0.99	
Adjustable power factor	-1~1	
AC connection	Three-phase three-wire	
Isolation method	transformer	
General data		
Weight of PCS and transformer container	16T	17.5T
Dimensions（W ×H ×D）(mm)	7400×3000×3000	7600×3000×3000
Weight of battery container	58T	2x(45T)
Dimensions（W × H ×D） (mm)	13176×2800×3100	2×(10500×2800×3100)
Cooling of PCS	Temperature controlled forced air cooling	
Cooling of battery container	Industrial air conditioner	
Max. working altitude（m）	5000（> 3000 derating）	
Noise	≤ 75dB(1m)	
Operating temperature range （C）	-30~50	
Relative humidity	0~95%	
Degree of protection	IP54	
communication Interface	RJ45 / Fiber	
Communication protocol	IEC 61850	