



◎ SAFE

- ★AC side power distribution is independent into a cabinet, physical isolation is more secure.
- ★Isolation transformer separate compartment for safer protection.

◎ INTELLIGENT

- ★Integrated energy billing components, anti-reverse flow components, dynamic real-time monitoring, data summarization.
- ★The equipment has a load tracking function, can realize the demand control, the system is more economically advantageous.
- ★Cloud platform online operation and maintenance, convenient function parameter settings, remote monitoring and maintenance, intelligent and worry-free.

◎ CONVENIENCE

- ★PCS module drawer design for easy maintenance and installation.
- ★Flexible configuration, according to the user's actual needs, a power distribution cabinet can be matched with multiple battery cabinets.
- ★Small footprint, can be installed side-by-side or separately from the battery cabinet for flexible deployment.

◎ EFFICIENT

- ★Standard PCS 215kW power distribution cabinet + 418kWh battery cabinet for efficient charging and discharging.
- ★More power and capacity for scenes with high power demand.
- ★Power distribution integration, simple operation and easy maintenance.



215KW AC SIDE DISTRIBUTION CABINET



215kW

SUMMARIZE

The 215kW AC side distribution cabinet has an integrated box design with EMS, transformer, PCS, and distribution system in one unit.

The product has IP54 protection level, mobility, easy lifting and transportation, shorter disassembly cycle, applied to industrial and commercial energy storage.

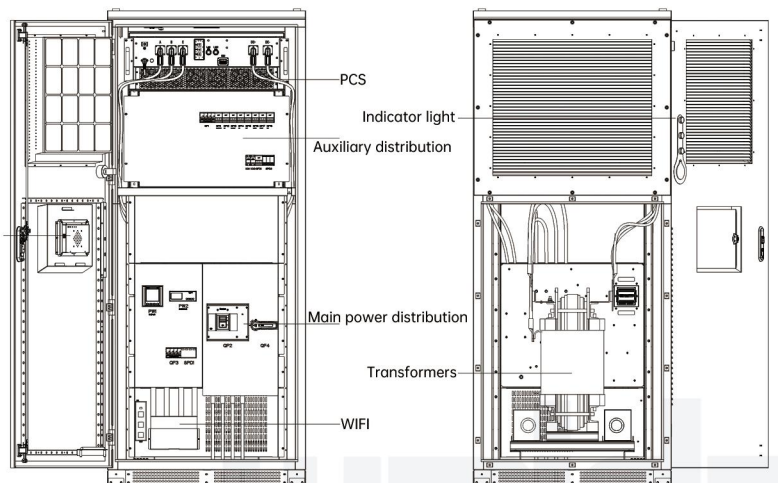
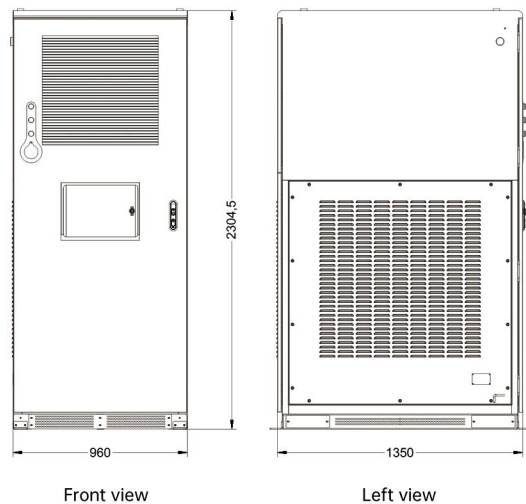
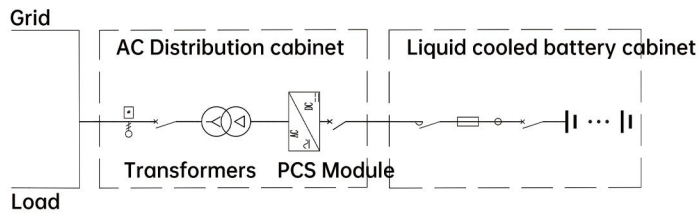
This product, together with the liquid-cooled DC-side battery cabinet, forms a complete energy storage system.

CONFIGURATION LIST

Item	Specification	Quantity
Cabinet	960*1350*2305mm(W*D*H)	1
Bidirectional variable flow control system	INPPCS-215	1
Energy storage plant master control system	BAMS	1
Energy management system	EMS	1
Transformers	SG-250KVA/690:400V	1
Billing components	Billing meters + Current transformers	1
Anti-backflow components	Anti-reverse current meter + Current transformer	1
Power distribution system		1



SYSTEM TOPOLOGY



*For reference only, subject to actual deliverables.

PCS Parameters

PCS Parameters

DC Side parameters	Route number (e.g. number of roads)	1
	Voltage range	DC1000V ~ 1500V
	Rated DC power	215kW
	Voltage stabilization accuracy	$\leq \pm 2\%$
	Stabilization accuracy	$\leq \pm 3\%$
	Pressure limiting characteristics	Able fulfill (conditions or requirements)
	Current limiting characteristics	Able fulfill (conditions or requirements)
AC Grid parameters	Rated output power	215kW
	Overload capacity	1.1x10min, 1.2x1min
	Rated voltage	690V
	Rated output current	180A
	AC access method	three-phase, three-wire (TCM)
	Isolation method	Non-isolated
	Grid voltage range	690V(-15% ~ +15%)
	Grid frequency range	50Hz/60Hz \pm 2.5Hz
	Total harmonic distortion rate of current	$\leq 3\%$ (Full load)
	Power factor	-0.99 ~ +0.99
	Current DC component	$\leq 0.5\%$
	Charge/Discharge conversion time	< 100ms
Other parameters	Maximum conversion efficiency	$\geq 99\%$
	Permissible ambient temperature	-25°C ~ 60°C (Derating above 45°C)
	Noises	≤ 75 dB
	Protection class	IP66
	Height above sea level	< 4000m; > 2000m Derating
	Cooling method	Forced air cooling
	Maximum ventilation	23m ³ /min
	Inlet area	63700mm ²
	BMS Communication interface	CAN
	EMS Communication interface	Network port or 485

Transformer parameters

Input Characteristics	AC Input voltage	690V
	AC Input frequency range	50/60Hz
	AC Input voltage waveform sinusoidal distortion	≤2%
Output Characteristics	Output rated power	250kVA
	Output voltage	400V
	Output current	360.8A
	AC Output voltage waveform sinusoidal distortion	≤3%
	Static (in a signal)	≤65dB (Measured at 1m from the cabinet)

The whole machine parameters

Model grade	215kW	
Basic parameters	Output power	215kW
	Output voltage	400V
	Communication method	CAN/RS485
	Isolation method	Isolation transformer
	Protection class	IP54
	Cooling method	Natural air cooling
	Weight	1150kg
	Size	960*1350*2305mm (W*D*H)