

836kWh Outdoor Battery Cabinet

Technical Data

Product Type	836kwh
Nominal energy (kWh)	835.9
Nominal power (kW)	417.9
Nominal voltage (V)	1331.2
Charge/discharge rate	0.5P
Cell type (Ah)	LFP, 628
Grouping method	1P104S×4S×2P
Voltage range (V)	1164.8 to 1497.6
DC-side RTE efficiency	≥96% (@25±3°C, 0.5P, BOL, with at least 1h interval between charge and discharge, excluding auxiliary power consumption)
Cooling method	Liquid cooling with 50% ethylene glycol water solution
Fire protection	Combustible gas detection, smoke detector, temperature sensor, intake and exhaust fans + water fire extinguishing + aerosol fire extinguishing (gas suppressant: aerosol)
BMS balancing method	Passive balancing
IP rating	IP54/55
Corrosion resistance rating	C4/C5
Design life	20 years (main structure)
Operating temperature (°C)	-30 to 55°C (derating above 45°C)
Storage temperature (°C)	-30 to 60°C
Operating humidity	≤95% RH (non-condensing)
Altitude (m)	4000m (no derating below 2000m)
Dimensions (W×D×H)mm	1470×2438×2350
Weight (t)	Approximately 8
Color	RAL7035
Noise	<75dB(A) @1m
Reference standard	IEC62619, IEC63056, IEC61000-6-2/-4, UN38.3, UL9540A



Application scenarios



PV + Energy Storage

The 800V AC output voltage is perfectly suited for photovoltaic power generation, eliminating the need to add a separate transformer to increase capacity.



Energy Arbitrage

Participate in intraday and day-ahead power trading markets, participate in peak-valley arbitrage, and smoothly connect with most European EMS companies.



Balance Service

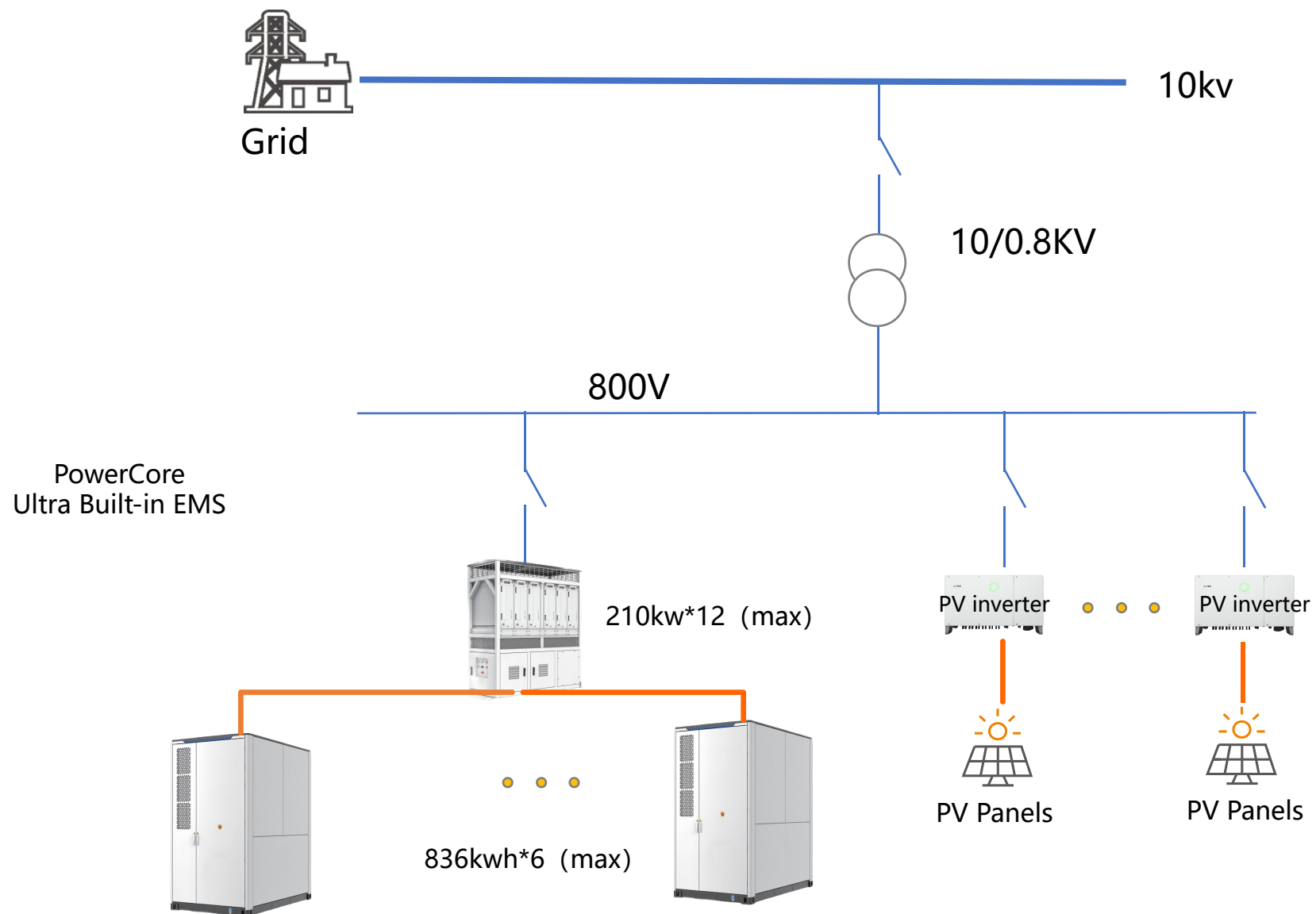
Optimize communication structure, respond in milliseconds to balance the market, and meet FCR, aFRR, and mFRRY requirements.



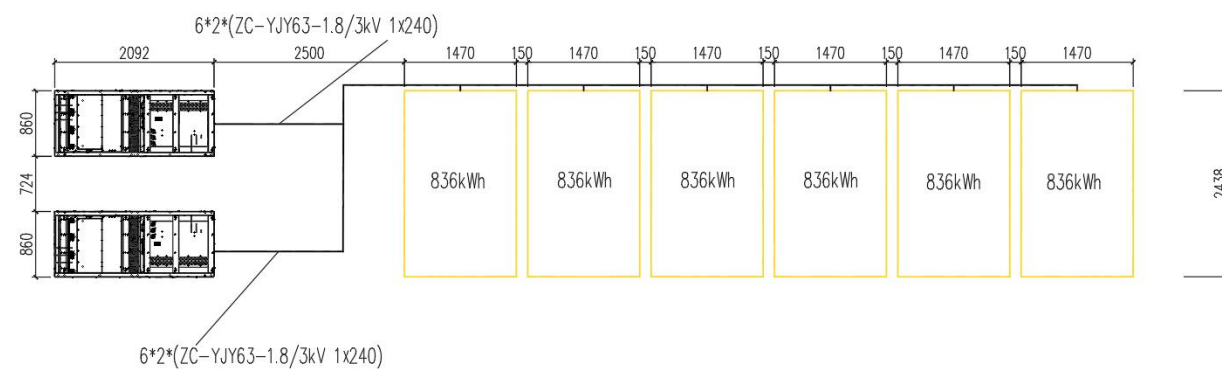
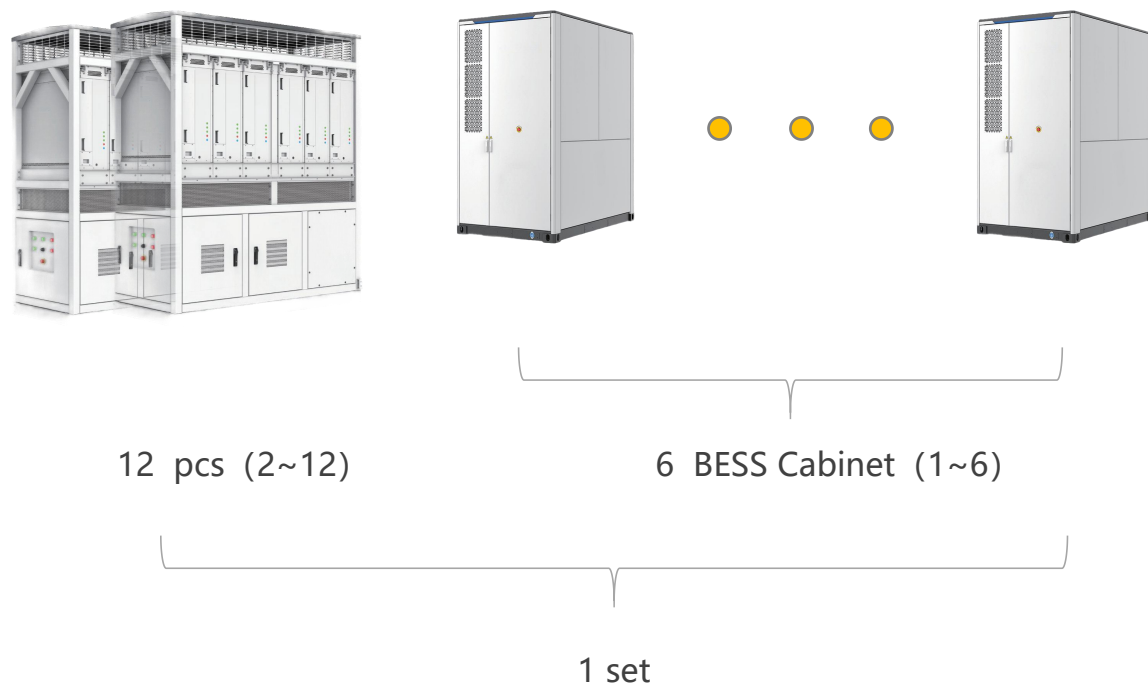
Application Service

It can be used in other special scenarios, such as black start, dynamic capacity expansion, thermal power coordination, and wind power storage.

Typical Application



Solution Layout



Layout for 1 sets