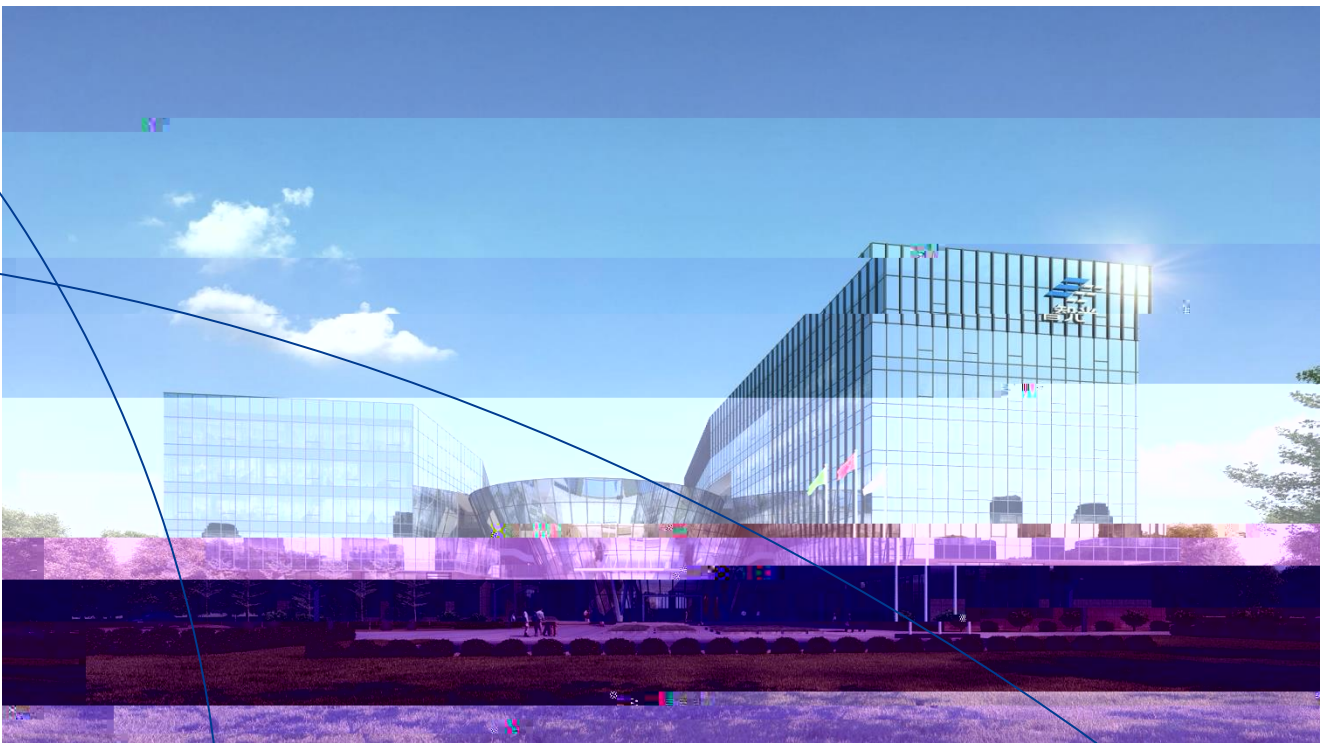




## 2.5MW/5MWh BESS Specifications



Guangzhou Zhiguang Electric Co., Ltd.

Jan. 2025

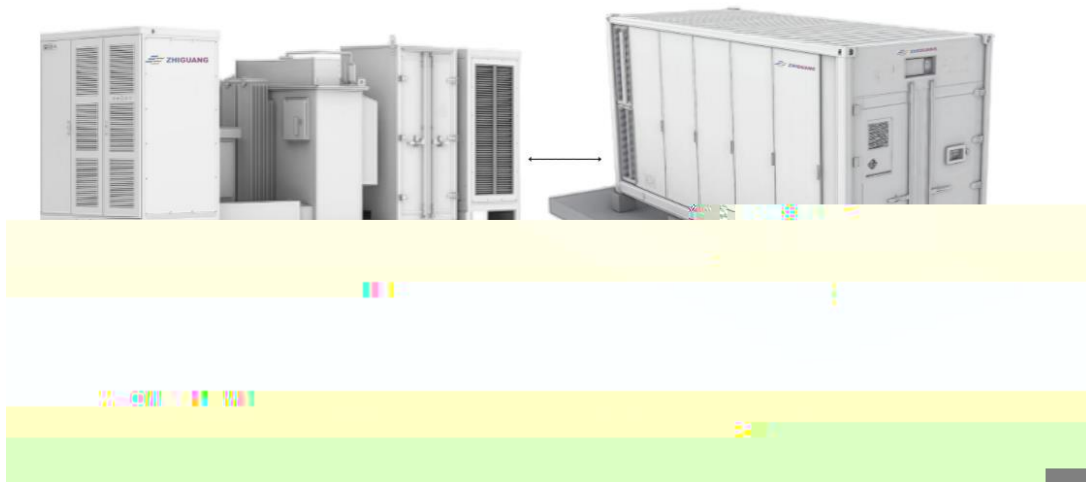


Figure1. 2.5MW/5MWh BESS Diagram



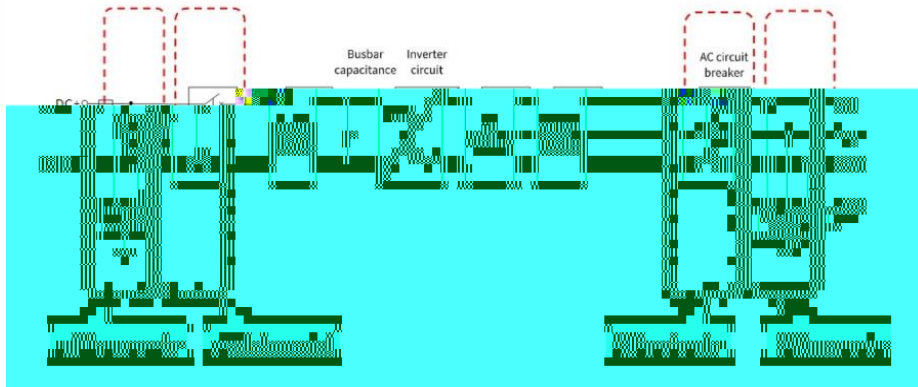
Figure 2. 5MWh Battery system

Battery Type	LFP cell, 314Ah
configuration	12*(8*1P52S)
Cooling Method	Liquid Cooling
Coolant	50% Ethylene glycol aqueous solution
Operating Ambient Temperature	-25 °C ~ +55 °C
Storage Temperature	-30°C ~ +60 °C

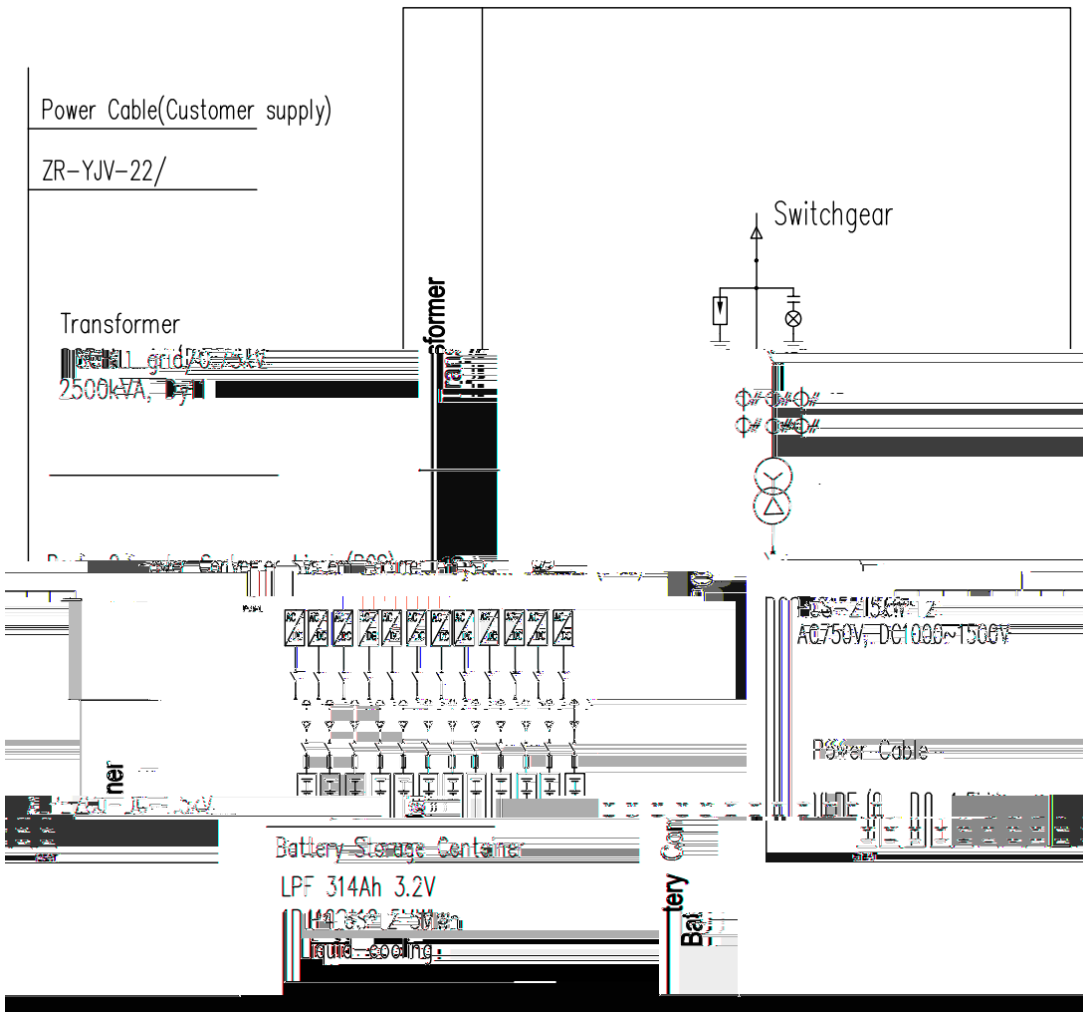
Application altitude	≤2000m
Protection Level	IP54
Weight	~44t
Size	6058mm(W)*2438mm(D)*2896mm(H)
Color	RAL7042
Fire protection	Aerosol + water firefighting + explosion-proof fan (combustible gas)
Rated Energy	5015.9616kWh
Rated Voltage	1331.2VDC
Voltage Range	1164.8~1476.8VDC
Communication method	CAN, RS485, TCP/IP
Communication port	RS485, Fiber ST
Cell	UN38.3, IEC 62620 , IEC62619
Container	UN3536 , IEC62619 , EN61000 , EN62477, IEC63056 , IEC 62933-5-2



Figure 3. 2.5MVA Transformer+12\*215kW PCS+MV cabinet



Temperature	-20°C ~ 60°C(De-rating over 50°C)
Protection class	Class I
Cooling Method	Air Cooling
Degree of protection	IP66
Altitude	≤4000m (>3000m derating)
Humidity	0% ~ 95% (Non condensing)
Maximum battery voltage	1500 Vd.c.
Operating voltage range	1100~1500 Vd.c.
Rated voltage	1331.2Vd.c.
Max continuous discharge/charging current	199Ad.c.
Rated voltage	3~PE 750 Va.c.
Rated frequency	50Hz / 60Hz
Rated power	215kVA
Power factor (at rated power)	>0.99
Power factor adjustable range	-1 ~ 1
Total current waveform distortion rate	<3 % (Under rated power conditions)
CE certification in accordance of IEC standards and, Grid Compliance	
Rated frequency	50Hz/60Hz
Rated power	2500kVA
Rated voltage	Grid/0.75KV
ambient temperature	-25°C ~ 40°C



Power Generation Scenario		
Site pictures		
Project	Guangdong Thermal Power Auxiliary Frequency Modulation Energy Storage Project	Shandong Reservoir Photovoltaic Energy Storage
Capacity	60MW/60MWh	44MW/88MWh
Functions	AGC frequency regulation, reducing oscillation probability, improving operational reliability and safety	Energy integration, system frequency regulation, peak valley arbitrage
Power Grid Scenario		
Site pictures		
Project		