



Fig. 4-1 Y104R04C12-5.015MWh Energy storage container system

No.	Item	Specification	Remark
1	Product Model	Y104R04C12-314	
2	Configuration	416s12p	
3	Rated Energy	5015.9kWh	100%DOD, 0.5P
4	Rated Voltage	1331.2V	
5	Operating Voltage Range	1040~1500V	For cell 2.5V~3.65V
6	Dimension	6058mm×2438mm×2896mm	L×W×H, 20HQ
7	Mass	~44500kg	
8	Standard charging method	Charge at a constant power of 0.5P until cell voltage reaches 3.55V, and finally charge at a constant power of 0.1P until cell voltage reaches 3.65V	25°C±2°C
9	Standard discharging method	Discharge at a constant power of 0.5P until cell voltage reaches 2.5V	25°C±2°C
10	Rated charge power	0.5P (2507kW)	According to current map (5.1 ~ 5.4)

11	Rated discharge power	0.5P (2507kW)	According to current map
12	Maximum Continuous Discharge Rate	2507.981 kW	
13	Short overload charging power	5015kW (for 0.5P system) @60s	According to current map (5.1~5.4)
14	Short overload charging power	5015kW (for 0.5P system) @60s	According to current map (5.1~5.4)
15	Short circuit current	142.28kA@12 rack 73.54kA@6 rack	13.12kA @1 rack
16	Operating ambient temp.	-30~55℃	
17	IP level of cabin	Bat. Room IP55 Electric room IP55 Chiller controller module IP55	
18	Efficiency	≥93.7%@0.5P ≥95.2%@0.25P	
19	Insulation standard	≥1000Ω/V	Test voltage 2500VDC
20	Withstand voltage	4500VDC, leakage current ≤5mA, no breakdown or flashover	
21	Cooling and heating type	Liquid cooling / heating	
22	Refrigerating Power	60kW @ Ambient temp 35℃ 55kW @ Ambient temp 45℃	
23	Heating Power	27kW	
24	Auxiliary power supply	22.8kW@ Ambient temp 25℃ @0.5P 27.2kW@ Ambient temp 35℃ @0.5P 33.6kW@ Ambient temp 45℃ @0.5P 8.1kW@ Ambient temp 25℃ @0.25P 9.8kW@ Ambient temp 35℃ @0.25P 12.5kW@ Ambient temp 45℃ @0.25P	Including BMS and cooling system
25	Communication agreement	CAN, RS485, TCP/IP	

26	Authentication Report Number	UL9540A-2019@Module	CN241BQ6 001
		UN38.3@Module	RZUN2024-2096
		ROSH@Module	168480419a 001
		UL9540A-2019@Unit	CN240QMQ 001
		UL1973-2022@Unit	CN240UFR 001
		IEC62477-2022@Unit	CN24TECE 001
		IEC63056-2020&62619-2022@Unit	CN24FOVC 001
		IEC62477-2022@Container	CN24S4UY 001
		UL9540-2023@Container	CN24EDI5 001
		UN38.3@Container	RZUN2024-2098