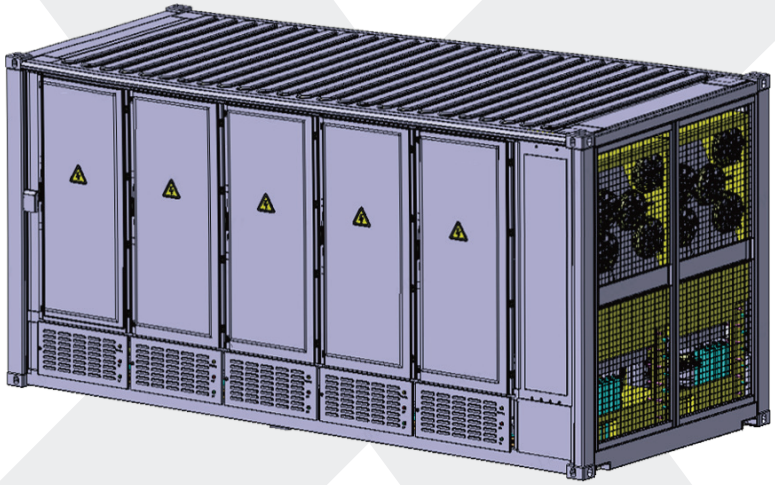
nRuiT ENERGY SYSTEMS

LIQUID COOLED ESS CABINET



Composition Of Liquid-Cooled ESS Cabinet			
System	Sub Components	NO.	Remark
Battery Racks	20 Feet Container	1	2896mm(H)*2462mm(W)*6058mm(D)
	Battery Modules	80	With CSC
BMS	Master Control Box	1	Including IMM, MBMU, ETH, Fiber Conversion Module
	Main Control Box	10	Including SBMU, fuse, isolation switch and so on
HVAC	Cooling Unit	2	Including compressor, pump, fan, heater and others
FSS	Fire Suppression Control Panel	1	
	Smoke Detector	10	
	Gas Detector	10	
	Aerosol	10	
Power Supply	Distribution Box	1	Auxiliary power supply system

Product Type		LFP Battery Bank	
NO.	Item	Specification	
1	Configuration	10P416S	
2	Rated Energy	3727.36kWh	
3	Rated Voltage	1331.2VDC	
4	Voltage Range	1164.8~1497.6VDC	
		0.5P System	
5	Charging Current (0.5P)	Rated Maximum	1400A 1600A
6	Charging Power (0.5P)	Rated	1863.68kW
7	Discharging Current (0.5P)	Rated Maximum	1400A 1600A
8	Discharging Power (0.5P)	Rated	1863.68kW
9	Auxiliary Power Supply (0.5P)	Voltage Range Power	3AC 380V~480V Max. 36.2 kW
		1P System	
10	Charging Current (1P)	Rated Maximum	2800A 3200A
11	Discharging Current (0.5P)	Rated Maximum	2800A 3200A
12	Charging Power (1P)	Rated	3727.36kW
13	Discharging Power (1P)	Rated	3727.36kW
14	Auxiliary Power Supply (1P)	Voltage Range Power	3AC 380V~480V Max. 56.2 kW
15	Operating Ambient Temperature	Charge Discharge	-25℃~55℃ -25℃~55℃
16	Environment Condition	Storage Temperature Application Altitude	-40℃~60℃ ≤4000m
17	General Parameters	Size	2896mm(H)*2462mm(W)*6058mm(D)
		Weight	~35t
		IP Level	IP55
		Cooling Mode	Liquid Cooling
		Communication Agreement	CAN, RS485, TCP/IP
		Power Connection	Cable lug: 6 x M12
		Communication Connection	Fast plug
		Aux Power Connection	Terminal
		Coolant	50% Ethylene glycol aqueous solution
18	Fulfill Standard	Cell Container	UN38.3/UL1973/IEC62619/UL9540A UL1973/UL9540A