UPS Back-up

Cell 3.2V 50Ah / 4C-rate
Module 48V 50Ah
(15S)

Cell Specification

Item	Parameters	Remark	Reference
Rated capacity	50 Ah		
Cell rated voltage	3.2 V		
Charging cut-off voltage	3.65 V	Limited value	
Discharging cut-off voltage	2.5 V	Limited value	
Max continuous charge current	50 A	Limited value	
Max continuous discharge current	200 A	Limited value	
Size (W*H*D)	115.2*192.1*36.2mm		
Weight	Approx. 1.53 kg		
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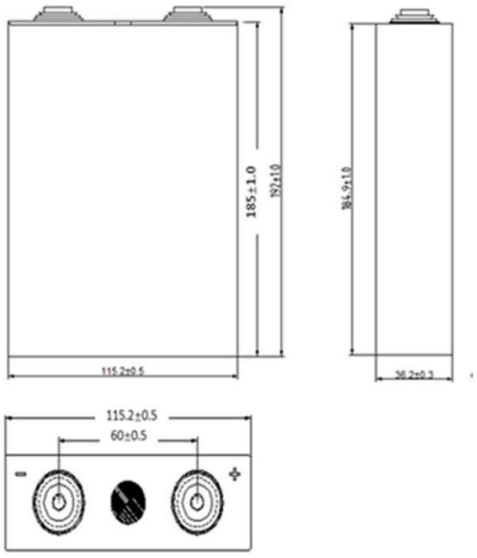
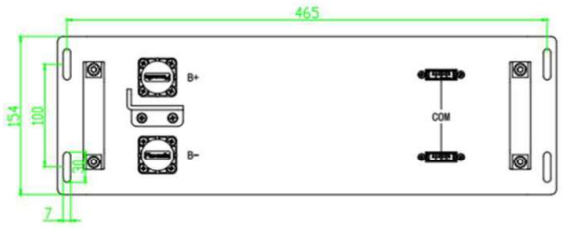
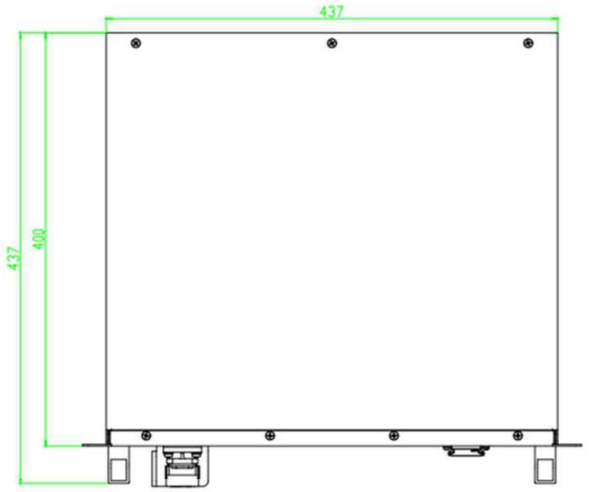


Module Specification

Item	Parameters	Remark	Reference
Rated capacity	50 Ah		
Rated voltage	48 V	15S2P	
Max continuous charge current	50 A		
Max continuous discharge current	100 A		
End of charge voltage	54 V		
End of discharge voltage	37.5 V		
Charge ambient temperature	0℃-45℃	Optimum ambient temperature: 25℃-35℃	
Discharge ambient temperature	0℃-45℃		
Operation humidity range	≤95% RH		
Recommend storage temperature	15°C-35°C		
Size (W*H*D)	437*154*400mm		
Weight	Approx. 36 kg		



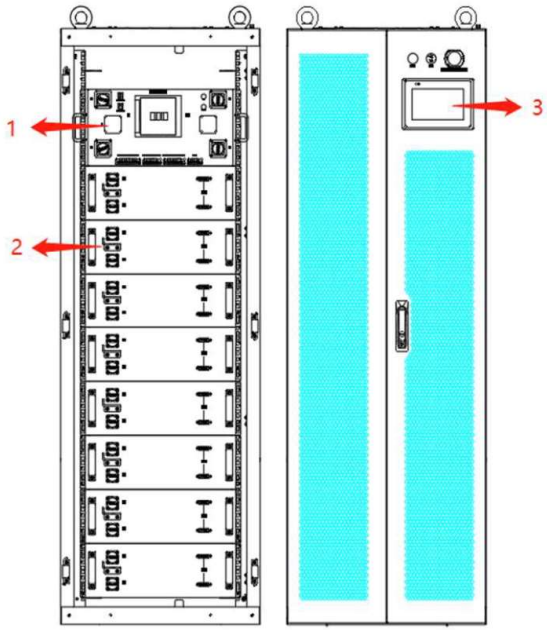


System Specification

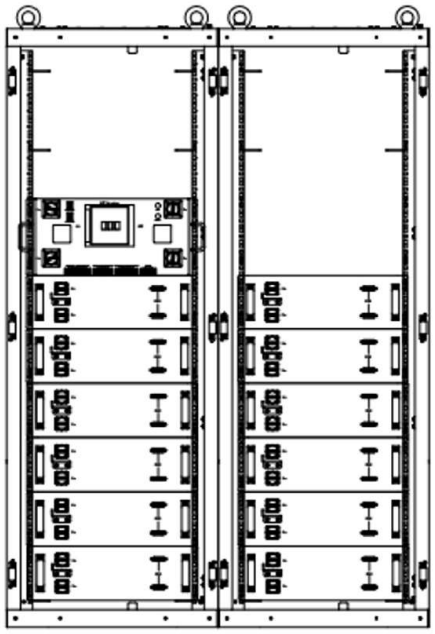
Item	Parameters			Remark
Model	① LFPR-38450S	② LFPR-57650S	③ LFPR-76850S	
Rated voltage	384V	576 V	768 V	
Rated capacity	50 Ah/cluster	50 Ah/cluster	50 Ah/cluster	
Rated energy	19.2 KWh/cluster	28.8 KWh/cluster	38.4 KWh/cluster	
System efficiency	92%	92%	92%	Watt-hour efficiency
Communication type	CAN、RS485、DO/DI	CAN、RS485、DO/DI	CAN、RS485、DO/DI	
Equalization	Negative equalization	Negative equalization	Negative equalization	≤300 mA
Operation voltage range	336-408V	504 V-612 V	672 V-816 V	
Self-discharge	≤3% per month	≤3% per month	≤3% per month	
Max continuous charge current	50A	50 A	50 A	
Max continuous discharge current	200A	200 A	200 A	
Total voltage sampling	0V-600V	0V-1000V	0V-1000V	±(0.5%FS+0.1%RD)
Total current sampling	0 A-500 A	0 A-500 A	0 A-500 A	±(0.5%FS+0.5%RD)
Temperature sampling	-20℃-125℃	-20℃-125℃	-20℃-125℃	Accuracy ±2℃
Insulation sampling	0-5 MΩ	0-5 MΩ	0-5 MΩ	Total voltage≥400V, accuracy ±20%; Total voltage＜400V, accuracy ±30%; Insulation resistance ≤50kΩ, accuracy ±10kΩ.
SOC estimate accuracy	≤8%	≤8%	≤8%	
Charge ambient temperature	0℃-45℃	0℃-45℃	0℃-45℃	Optimum ambient temperature: 25℃-35℃
Discharge ambient temperature	0℃-45℃	0℃-45℃	0℃-45℃	
Storage temperature	-10℃-55℃	-10℃-55℃	-10℃-55℃	
Humidity	5%-95% no condense	5%-95% no condense	5%-95% no condense	
Protection	System over-voltage and system under-voltage, cell over-voltage and cell under voltage, charging over-current and discharging over-current, charging high temperature and charging low temperature, discharging high temperature and discharging low temperature, short circuit protection, smoke protection, insulation faulty protection			
Fire detection	Smoke sensor	Smoke sensor	Smoke sensor	2 pcs, on top of the cabinet
Cabinet size (W*H*D)	600*1700*700mm	1200*1700*700mm	1200*1700*700mm	① Single battery cabinet ② ③ 2 battery cabinets
Weight	Approx. 450 kg	Approx. 800 kg	Approx. 950 kg	① Single battery cabinet, including battery module ② ③ 2 battery cabinets, including battery module

System Specification

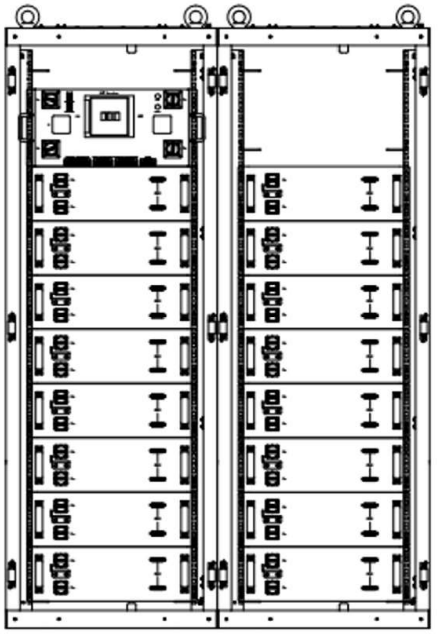
System Drawing



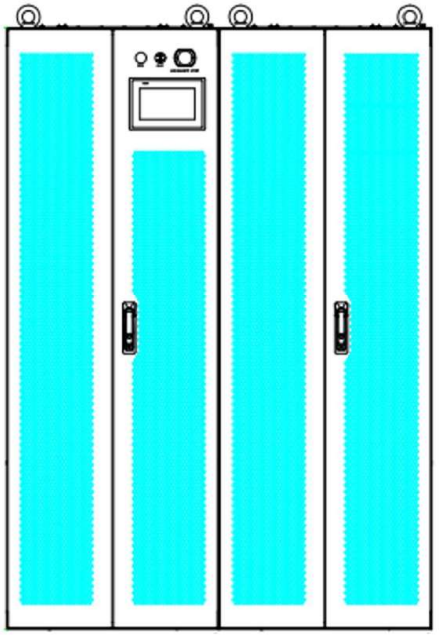
LFPR-38450S



LFPR-57650S



LFPR-76850S



No.	Items	Remark
1	High voltage box	It is used to control and protect the DC connection or disconnection of the battery cluster.
2	Battery module	48 V, 50 Ah (15S2P)
3	BAU	Human-machine interaction interface, only in the master cabinet

System Specification

high voltage distribution Panel

Item	Parameters	Remark
Rated voltage	1000 VDC	
Rated current	300 A	1.16 times overload for 5s
Power supply	24 VDC external power	
Power consumption	＜40 W	Not include impulse
Communication type	CAN 3 ports	Protocol conversion board
Power connector	1 connector for battery, 1 connector for output	connector
Cooling type	Natural cooling	
Total voltage sampling	0V-1000V	±(0.5%FS+0.1%RD)
Total current sampling	0 A-500 A	±(0.5%FS+0.5%RD)
Temperature sampling	NTC(-20℃-125℃)	Accuracy ±2℃
Insulation	0-5MΩ	Total voltage≥400V, accuracy ±20%; Total voltage＜400V, accuracy ±30%; Insulation resistance≤50kΩ, accuracy ±10kΩ.
SOC estimate value	≤8%	
Short circuit protect	Yes, fuse	
Isolation rate	1000 VDC, 60s, isolation resistance more than 10 MΩ	
Dielectric strength	2500VAC, 60s, No flashover and breakthrough, current leakage less than 3mA	
Operation humidity	5%-95%RH and no condense	
Size (W*H*D)	440*218*550 mm	
Weight	Approx. 32 kg	

System Specification

high voltage distribution Panel Drawing