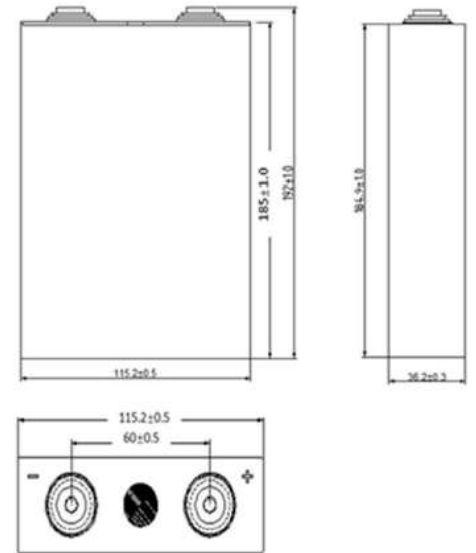

UPS Back-up

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

UPS 백업용

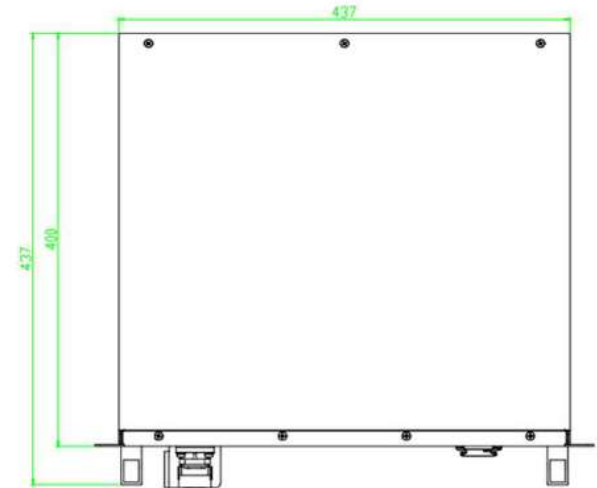
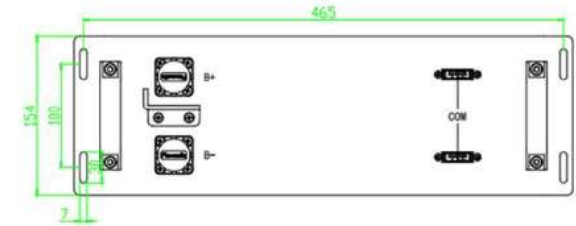
Cell Specification

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		
Weight	Approx. 1.53 kg		



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°C-45°C	Optimum ambient temperature: 25°C-35°C	
Discharge ambient temperature	0°C-45°C		
Operation humidity range	≤95% RH		
Recommend storage temperature	15°C-35°C		
Size (W*H*D)	437*154*400mm		
Weight	Approx. 36 kg		

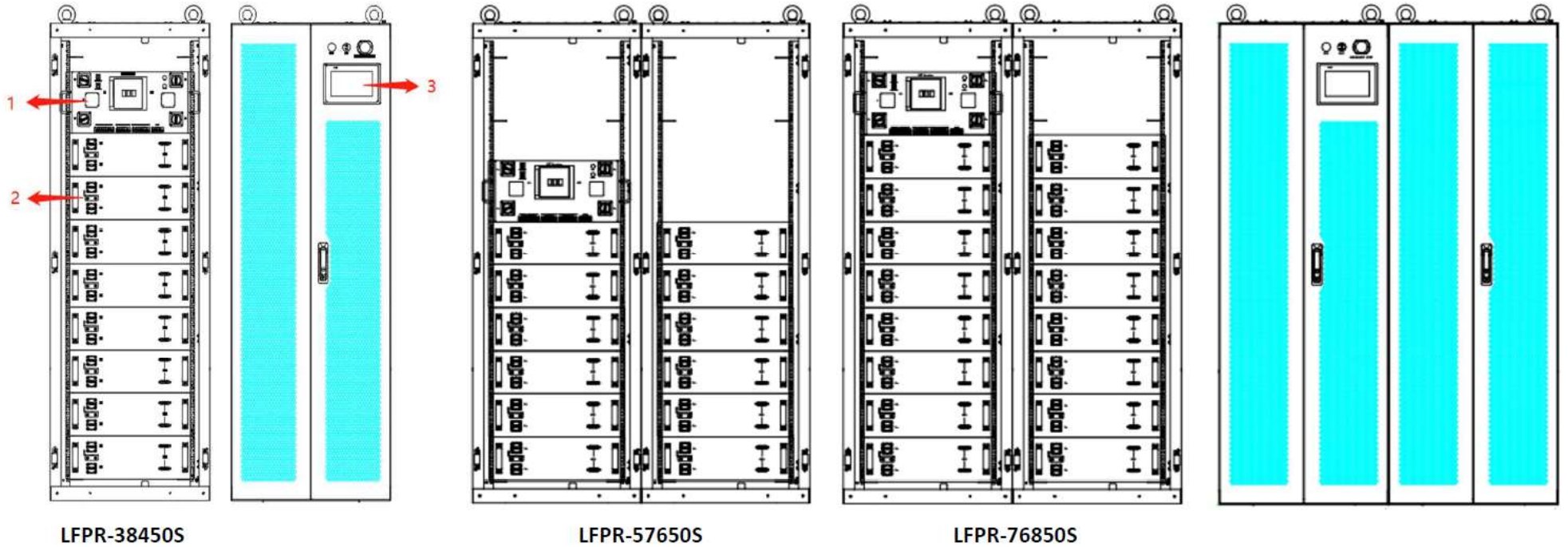


System Specification

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°C-125°C	-20°C-125°C	-20°C-125°C	Accuracy ±2°C
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°C-45°C	0°C-45°C	0°C-45°C	Optimum ambient temperature: 25°C-35°C
Discharge ambient temperature	0°C-45°C	0°C-45°C	0°C-45°C	
Storage temperature	-10°C-55°C	-10°C-55°C	-10°C-55°C	
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 圖面



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

고압분전반

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	$\pm(0.5\%FS+0.1\%RD)$
Total current sampling	0 A-500 A	$\pm(0.5\%FS+0.5\%RD)$
Temperature sampling	NTC(-20°C-125°C)	Accuracy $\pm 2^{\circ}C$
Insulation	0-5M Ω	Total voltage \geq 400V, accuracy $\pm 20\%$; Total voltage <400V, accuracy $\pm 30\%$; Insulation resistance \leq 50k Ω , accuracy $\pm 10k\Omega$.
SOC estimate value	$\leq 8\%$	
Short circuit protect	Yes, fuse	
Isolation rate	1000 VDC, 60s, isolation resistance more than 10 M Ω	
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

고압분전반 도면

