

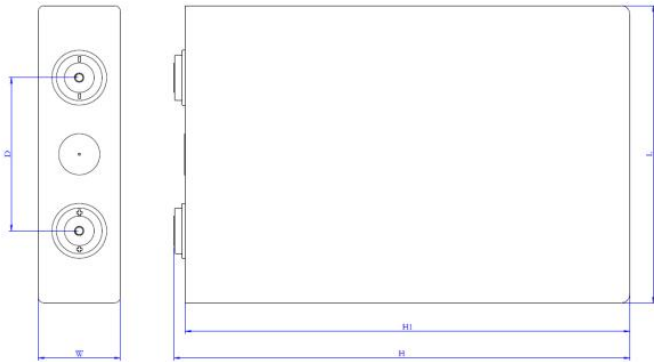
# 384V 105AH 120S Battery System Solution

Shanghai OE Industrial Co., Ltd.

## Description of customer needs

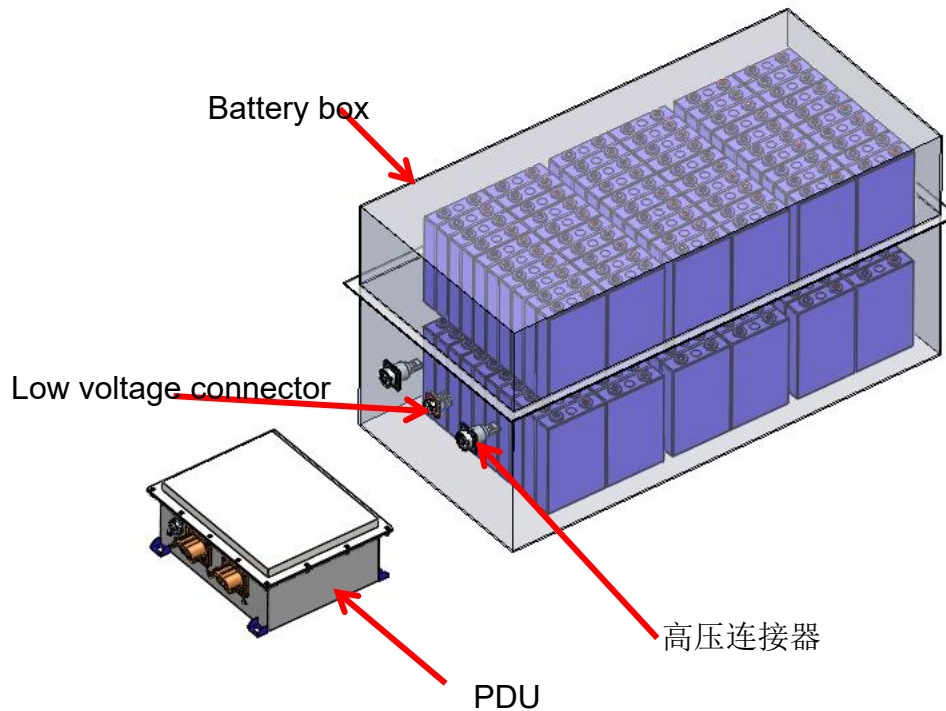
Battery System Design Requirements Table				
Model:		Date: 2023.03.09	Edition: V0	
input item		Specific parameters	Remark	
performance parameter	Rated electricity (kWh)		40.32	1 battery box
	Rated voltage (VDC)		384	
	Battery Material System Requirements		Lithium iron phosphate	
	Maximum continuous discharge current (A)		100	0.95C
	Peak discharge current (A)		195	1.86C
	Maximum continuous charging current (A)		100	0.95C
	Cooling method requirements (air cooling, liquid cooling, natural cooling...)		natural cooling	
	Charging Low Temperature Requirements		greater than 0 degrees	
	heating requirements		Low temperature charge heating	
	degree of protection		IP67	
	Working environment temperature (°C)		-20~55	
	Maximum Dimensions (L*W*H) (mm)		1000*500*500	
safety		Meet the GB/T		

# 1. Cell parameters

Category	Parameter	Remark
Cell model	EVE LF105-105Ah	 <p>The technical drawing shows two views of the cell. The left view is a front view showing two circular terminals with a diameter of D and a center-to-center distance of 67.0 mm. The right view is a side view showing the cell's width of 130.3 mm, total height of 200.5 mm, and main body height of 195.5 mm.</p>
Size (H*W*T)	200× 130× 36.5(mm)	
Rated Capacity	105Ah	
Nominal Voltage	3.2V	
Cell weight	1.98kg	
Energy Density	170Wh/kg	
Maximum continuous charging current	1C	
Maximum Continuous Discharge Current	1C	
Maximum pulse discharge current	3C (25°C, 50%SOC)	
Maximum pulse charging current	1C (25°C, 50%SOC)	
Operating temperature	Charging: 0~55°C; Discharging: -20~55°C	

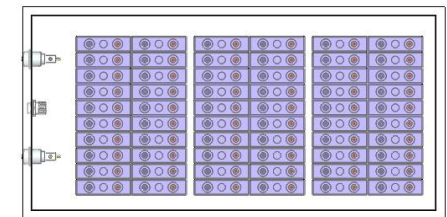
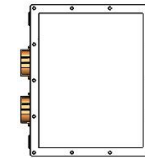
项目	描述	尺寸
L	宽度	130.3±0.3mm
W	厚度	36.5±1.0mm
H	高度(总高)	200.5±0.5mm
H1	高度(主体高)	195.5±0.5mm
D	极柱中心距	67.0±1.0mm

## 2. Battery shape and parameters



Technical Parameters	
rated information	384V100AH120S
Rated power	40.32KWH
voltage range	300VDC~438VDC
System weight	≈350kg
Continuous charging current	100A/0.95C
continuous discharge current	100A/0.95C
Instantaneous discharge current	195A/1.86C

top view:



illustrate:

1. EVE Lithium Energy LF105 (3.2V 105Ah) battery products are used, and the discharge rate meets the requirements of the motor working conditions and power (rated 30kw, peak 60kw);
2. The battery system consists of 1 box + 1 PDU, including modules, sheet metal parts, BMS modules, electrical components and accessories, etc., and communicates with the external vehicle through the low-voltage aviation plug interface;
3. The overall waterproof level meets the requirements of IP67;
4. In this design scheme, the space utilization is compact, and the maximum external dimension (L\*W\*H) of a single box is 1000\*500\*500mm.

# Thanks

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