

# GB-L

## High Voltage LiFePO<sub>4</sub> Lithium Battery



### ◆ Safety

Built in explosion relief device to dredge gas, and built in fire protection device to cut off the fire source for 3 seconds

### ◆ High-voltage stack

Modules are connected in series without cable connection, and high-voltage platform improves system efficiency.

### ◆ Thermal management

Temperature detection of key parts, cell, power plug-in, etc.

### ◆ Wide temperature operation

The heating function is optional to meet the application scenarios with low temperature and no sense.

### ◆ Environmental friendliness

IP protection grade 65, anti-corrosion grade  $\geq C2$ , environmental protection battery.

### ◆ Intelligent and visual

Support remote upgrade, real-time battery warning information push, LCD data display.

## Technical Data

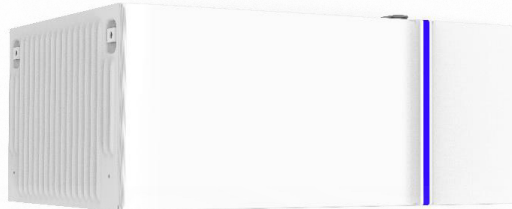



Model		GB-L				
<b>Main Parameter</b>						
Cell Chemistry	LiFePO4					
Module Energy(kWh)	4.09					
Module Nominal Voltage (V)	102.4					
Module Capacity(Ah)	40					
Battery Module Qty InSeries (Optional)	2	3	4	5	6	
System Nominal Voltage (V)	204.8	307.2	409.6	512	614.4	
System Operating Voltage (V)	166.4~700					
System Energy (kWh)	8.18	12.27	16.36	20.45	24.56	
System Usable Energy (kWh) <sup>1</sup>	7.36	11.04	14.72	18.40	22.10	
Charge/Discharge <sup>2</sup> Current (A)	Recommend		20			
	Nominal		40			
	Peak Discharge (2 mins,25°C)		50			
Working Temperature(°C)	Charge: 0~55/Discharge: -20~60					
LCD Display	SOC%,Power,Total Voltage					
Communication Port	CAN2.0,RS485					
Humidity	5%~90%					
Altitude	≤2000m					
IP Rating of Enclosure	IP65					
Storage Temperature(°C)	0~35					
Dimension (W/D/H,mm)	540*385*650	540*385*870	540*385*1090	540*385*1310	540*385*1530	
Weight(kg)	97	136	175	214	253	
Installation Location	Floor Mount					
Recommend Depth of Discharge	90%					
Cycle Life	25±2°C,0.5C/0.5C, EOL70%≥6000					
Warranty <sup>3</sup>	10years					
Certification	CE/IEC62619 /VDE2510-50/ UL1973/UL9540A/UN38.3					

1 DC Usable Energy, test conditions: 90% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

2 The current is affected by temperature and SOC.

3 The warranty is due whichever reached first of warranty period or life cycle power.

## System Components

Model	Description	
GB-LBS	High voltage battery cluster control box	
Operating Voltage	120 ~ 750Vdc	
Nominal Charge/Discharge Current	40A	
Max Charge/Discharge Current	50A	
Operating Temperature Range	-20~65°C	
Ingress Protection	IP65	
Dimension (W/D/H)	540*385*110mm	
Weight Approximate	12kg	
GB-LM4.0	4.09 kWh battery module	
Battery Type	LiFePO4(LFP)	
Nominal Voltage	102.4Vdc	
Rated Capacity	40Ah	
Rated Energy	4.09kWh	
Nominal Charge/Discharge Current	40A	
Peak Discharge Current	50A	
Charge Temperature	0~55°C	
Discharge Temperature	-20°C ~ 60°C	
Storage Temperature	0°C ~ 35°C	
Ingress Protection	IP65	
Dimension (W/D/H)	540*385*220mm	
Weight Approximate	39kg	
GB-LBase	Battery module base	
Dimension (W/D/H)	540*385*100mm	
Weight Approximate	7kg	
ECOM Cable2.0	Standard 2-meter communication cable connected to the external device	
		
EPCable2.0	Standard 2-meter power cable connected to the positive pole of the external PCS	
1000V/6AWG Cable		
ENCable2.0	Standard 2-meter power cable connected to the negative pole of the external PCS	
1000V/6AWG Cable		