

 Lvwo	Specification	Versions	A0
		Date	Aug. 22, 2023
		DOC No:	
Address: Economic Development Zone of Hangbu town, Shucheng County, Lu'an, China			
Tel:+86-0564-8030526	Post Code:231300	Web: www.lvwo-energy.com	

12.8V50Ah

Product Specification



Versions

A0

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Description of changes to technical documents

Changes to the previous versions of this agreement are as follow

[illegible]

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I. Battery system design reference technical document

GB 2894 Safety Signs (neq ISO 3864: 1984)

GB 16179 Guidelines for the Use of Safety Signs

GB 8897.4-2008 Primary Batteries (Part 4) Safety Requirements for Lithium Batteries

GB 21966-2008 Safety Requirements for Lithium Primary Cells and Batteries in Transportation

GJB 4477-2002 General Specification for Lithium-ion Battery Packs

II. Supply list

NO.	Version	Unit	Quantity	Notes
1	12.8V50Ah battery	pcs	1	

III. Battery system usage requirements

- Battery system operating external ambient temperature requirements: charging and discharging: charging and discharging $-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$;
- Battery system working external environment humidity requirements: $10\%\leq\text{humidity}\leq 90\%\text{RH}$;
- Battery system operation state try to maintain more than 20% SOC;
- When the battery system is not in use for a short period of time, it is required to maintain more than 60% SOC and be stored in a dry, clean and well-ventilated warehouse at $5^{\circ}\text{C}\sim 45^{\circ}\text{C}$.
- During the loading process of the battery pack, it is required to carry and put it gently, and strictly prevent it from falling, rolling and impacting;
- The battery pack shall not be placed upside down or lying down in the storage state; it is strictly prohibited to expose the battery pack to sunlight, rain or water for a long time;

7. Ensure that the battery system in the operation or storage state away from flammable and explosive substances, high temperature environment;
8. It is strictly prohibited to force the battery system to operate under the state of short circuit, overcharge and high temperature alarm;
9. Strictly prohibit customers from disassembling the battery system without permission;

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IV. Battery parameters

NO.	Item	Parameters	Notes
Battery pack system parameter			
1	Rated voltage	12.8V	
2	Battery pack voltage range	10~14.6V	
3	Rated capacity	50Ah	
4	Total energy	640Wh	
5	SOC range	10%-100%	
6	Charge and discharge capacity efficiency	≥96%	
7	Standard charging current (A)	≤25A	
8	Standard discharging current (A)	≤40A	
9	Max. continuous charging and discharging current(A)	50A	
10	Gross weight	About6.1KG	
11	Ambient relative humidity	10%-90%	
12	Ingress protection	IP65	
13	Charging and discharging ambient temperature	Charging: -10°C~60°C, Discharging: -20°C~60°C	
14	Shell material	Plastic shell	
15	Series-parallel system	4 S 1 P	
16	Product dimension (mm)	195*166*170mm (L*W*H)	
17	Cycle times	≥4000	
18	Output terminal	M8	

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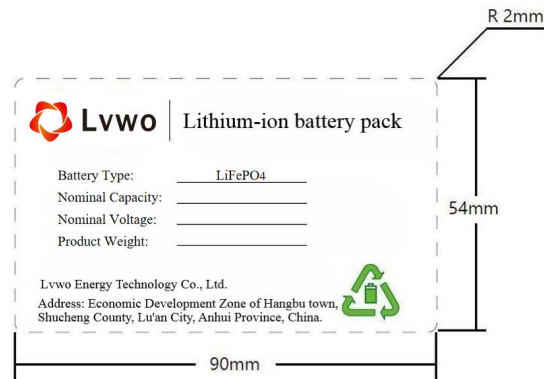
V. Schematic diagram of product external dimensions



Schematic diagram of pack external structure

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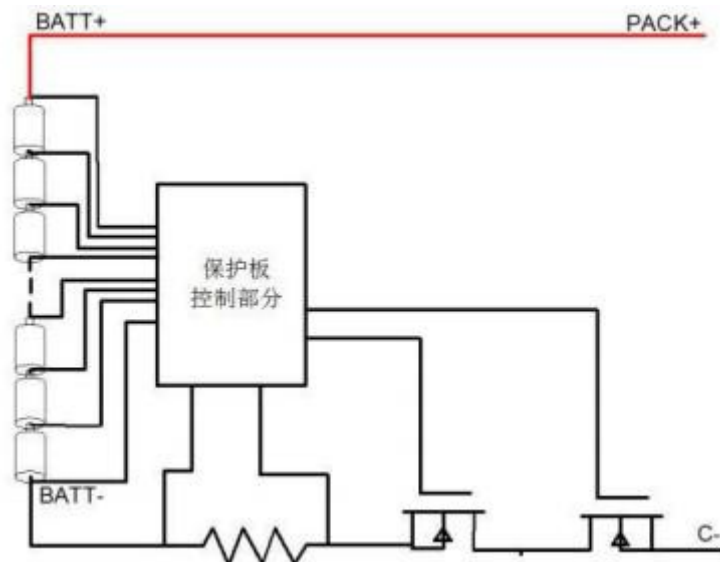
VI. Warning labels and nameplates



Label

VII. Specifications and parameters of BMS

7.1. Schematic diagram



VIII. Charger

- 1、Dedicated Charger for Lithium Iron Phosphate Battery
- 2、Max. Input Voltage $\leq 14.6V$ (Cell voltage: 3.65V)