

## Introduction

- ▶ Iron-V LFP12-100SEV is a high-performance lithium battery pack, which has high energy density, good discharge performance, high charging and discharging efficiency, and small battery volume.
- ▶ Iron-V LFP12-100SEV has a long lifespan, light weight, easy installation, and maintenance free features.



## Features



Cost Effectiveness



Longer Service Life



Guaranteed Safety



Smart Management



Fast Charge



Drop-in Replacement

## Discharge

Discharging Time Cut-off voltage 10.8V/25°C	1h	2h	3h	5h	10h
Constant Current Discharge	100A	50A	33.3A	20A	10A
Constant Power Discharge	1280W	640W	426W	256W	128W

### Attentions:

- When the battery needs to be used in parallel or in series, each battery shall be fully charged according to the standard charging method before parallel or in series.
- After the battery is deeply discharged. It should be charged in a timely manner. Otherwise, BMS may not work due to low voltage, and the battery may permanently fail.

Item		Iron-V LFP12-100SEV
General parameter	Nominal voltage	12.8V
	Nominal capacity/energy (25°C,0.2C)	100Ah/1280Wh
	Weight	10.3Kg
	Cell positive material	LiFePO4
	Terminal Type	M8
	Dimensions (W * D * H)	306*169*215mm
	IP rating	IP65
	Case Material	ABS
	Cycle life (25°C, 0.2C)	2000 @80% DOD
	Design life (25°C)	10 years
	Optional function	Heating, Bluetooth, Display screen
Electrical parameter	Operating voltage	10.8V-14.6V
	Max. charge/discharge current (25 °C)	100A/100A
	Peak Discharge Current (25°C)	200A (≤15S)
	Recommended charge /discharge current (25 °C)	50A/50A
	Recommended charge voltage	14.4V
	Battery input protection	BMS
	Self discharge (25 °C)	< 5%@3 month
	Internal resistance	≤12mΩ@100%SOC
	Maximum Modules in Series or paralleling	4pcs/4pcs
Protection function	Overvoltage protection, overcurrent protection, low-voltage protection, over temperature protection, low temperature protection, short circuit protection	
BMS parameter	Charge Protection	Primary: >105.0A; Secondary: >120A
	Discharge Protection	Primary: >105A; Secondary: >210A
	Over-charge Voltage Protection	>14.8V
	Over-discharge voltage protection	<9.6V
	High Temp. Protection	65±3°C, Recover: 60±3°C
	Low Temp. Protection	charge : 0°C, Recover: 3°C discharge : -20°C, Recover: -15°C
Environment	Charging temperature	0~55°C (without heating film)
	Discharging temperature	-20~55°C
	Storage temperature	-10°C~45°C
	Relative humidity	5%~95% (non condensing)

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