

Introduction

- ▶ Iron-V MFBTY-0084 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 MFBTY-0084 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 MFBTY-0084	
General parameter	Nominal voltage	12.8V
	Nominal capacity/energy (25°C,0.2C)	100Ah/1280Wh
	Weight	10.6Kg
	Cell positive material	LiFePO4
	Terminal Type	M8
	Dimensions (W * D * H)	330*172*220mm
	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
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)