



Iron-V

LFP12-200EV-BT (12V 200Ah) Specification

Iron-V Lithium Iron Phosphate Battery



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.
- Duration of maximum constant current is thermally limited by internal electronics and depends on ambient temperature.

Features

Cost Effectiveness



Smart Management



Longer Service Life



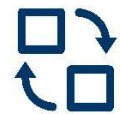
Guaranteed Safety



Fast Charge



Drop-in Replacement



Technical Characteristics

NORMINAL CHARACTERISTICS

Nominal Voltage	12.8 V
Nominal Capacity	200Ah
Energy	2560Wh
IR	≤10mΩ@100%SOC
Efficiency	≥99.5%
Maximum Modules in Series	4 (Single Use)

CHARGE & DISCHARGE CHARACTERISTICS

Voltage Window	10.8-14.6V
Max. Continuous Charge Current	150A
Max. Continuous Discharge Current	150A
Peak Discharge Current	245A (15s±2s)
Recommended charge current/A	100A
Recommended discharge current/A	100A
Charge current cut-off/A	6A

OPERATING CONDITIONS

Operating Temperature	Charge: 10°C~45°C
	Discharge:-20°C~60°C
Storage Temperature	20°C ~ 30°C
Storage Duration	12 months at 25°C
Heating Function	Charging heating (Optional)
	< 1°C, ON > 6°C, OFF

MECHANICAL CHARACTERISTICS

Case Material	ABS
Dimension (L*W*H)	522*238*223
Weight	22Kg
Terminal Type	F12 (M8)
IP Grade	/
BCI Group NO.	4D
Cell Type-Chemistry	Prismatic LiFePO ₄

BMS CHARACTERISTICS

Primary Charging Protection	Current: >155.0±2.5A
	Delay time:15±2s
Secondary Charging Protection	Current: >165.0A±2.5A
	Delay time: 3±1s
Primary Discharging Protection	Current: >155.0±2.5A
	Delay time: 20±2s
Secondary Discharging Protection	Current: >250.0A±2.5A
	Delay time: 3±1s
Over-charge Voltage Protection	Voltage: >14.8±0.2V
	Delay time:2±0.5s
Over-discharge voltage protection	Voltage: <9.6±0.2V
	Delay time:2±0.5s
High Temperature Protection	Charging: 65±3°C Recover: 60±3°C
	Discharging: 65±3°C Recover: 60±3°C
Low Temperature Protection	Charging: 0±3°C Recover: 3±3°C
	Discharging: -20±3°C Recover: -15±3°C
Communicating Function	Blue Tooth



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Constant Current Discharge Data (Amperes@25°C)

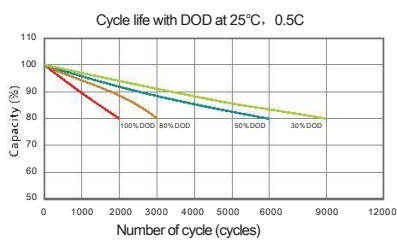
	1h	2h	3h	5h	10h
Cut-off voltage (10.8V)	/	100A	66.6A	40A	20A

Constant Power Discharge Data (Watt@25°C)

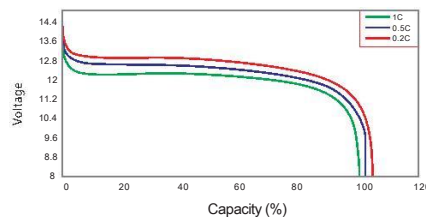
	1h	2h	3h	5h	10h
Cut-off voltage (10.8V)	/	/	775W	468W	236W

Cycle No. Vs DOD%

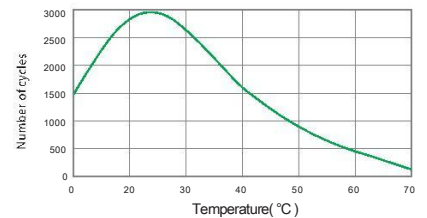
Number of Cycles Vs. DOD



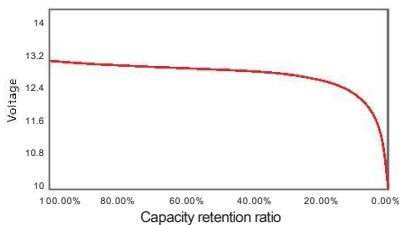
Discharge Performance at R.T.



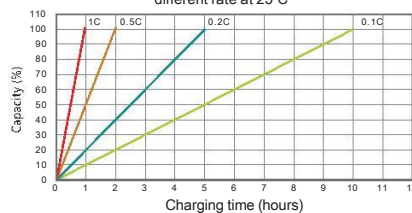
Cycle Life in Relation to Temperature



Battery Capacity (C) Vs. Open Circuit Voltage (OCV)
SOC Vs OCV



Battery Capacity Vs. Charging Time
Charging capacity(%) VS time with different rate at 25°C



Temperature Effects on Capacity

