(2021.03)

雄韬股份 VISION GROUP

Iron-V

LFP12-200EV (12V 200Ah) Specification

Iron-V Lithium
Iron Phosphate Battery

Features

Cost Effectiveness

Lithium VRLA

Longer Service Life

≥ 2000 cycles

Guaranteed Safety

BMS

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	2（Single Use）

CHARGE & DISCHARGE CHARACTERISTICS	
Voltage Window	10.8-14.6V
Max. Continuous Charge Current	50A
Max. Continuous Discharge Current	50A
Peak Discharge Current	100A（10s）
Recommended charge current/A	40A
Recommended discharge current/A	40A
Charge current cut-off/A	6A

OPERATING CONDITIONS	
Cycle Life	≥2000
Operating Temperature	Charge: 10℃~45℃
	Discharge:-20℃~60℃
Storage Temperature	20℃ ~ 30℃
Storage Duration	12 months at 25℃

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: >75.0A±2.5A	
	Delay time:15±2s	
Secondary Charging Protection	Current: >85.0A±2.5A	
	Delay time: 3±1s	
Primary Discharging Protection	Current: >75.0±2.5A	
	Delay time: 15±1s	
Secondary Discharging Protection	Current: >100.0A±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℃	Recover: 60±3℃
	Discharging: 65±3℃	Recover: 60±3℃
Low Temperature Protection	Charging: 0±3℃	Recover: 3±3℃
	Discharging: -20±3℃	Recover: -15±3℃

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Constant Current Discharge Data（Amperes@25℃）

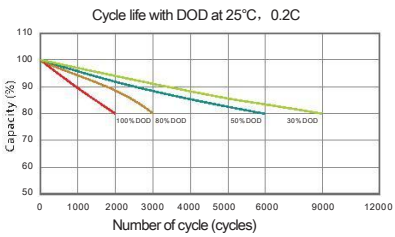
	1h	2h	3h	5h	10h
Cut-off voltage (10.8V)	/	/	/	40A	20A

Constant Power Discharge Data（Watt@25℃）

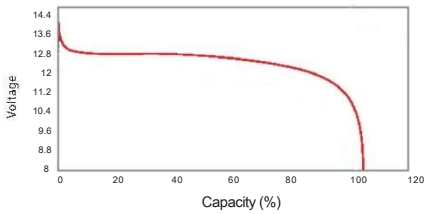
	1h	2h	3h	5h	10h
Cut-off voltage (10.8V)	/	/	/	468W	236W

Cycle No. Vs DOD%

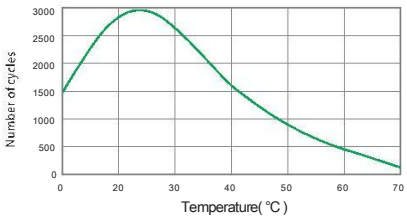
Number of Cycles Vs. DOD



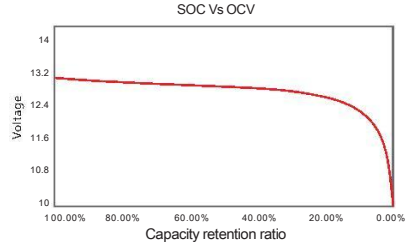
0.2C Discharge Performance at R.T.



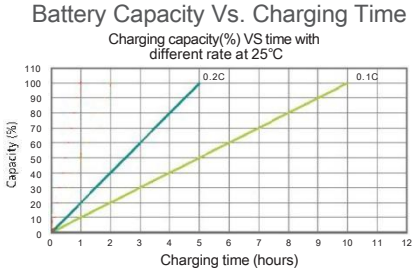
Cycle Life in Relation to Temperature



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



Battery Capacity Vs. Charging Time



Temperature Effects on Capacity