Iron-V

LFP12-200EV (12V 200Ah) Specification

Iron-V Lithium
Iron Phosphate Battery

Features

Cost Effectiveness

Lithium
VRLA

Smart Management

Longer Service Life

≥ 2000 cycles

Guaranteed Safety

BMS

Fast Charge

Drop-in Replacement

Technical Characteristics

NORMINALCHARACTERISTICS	
Nominal Voltage	12V
Nominal Capacity	200Ah
Energy	2560Wh
IR	≤3.21mΩ@100%SOC
Efficiency	≥99.5%
Maximum Modules in Series	None

MECHANICALCHARACTERISTICS	
Case Material	Iron
Dimension (L*W*H）	527*222*249
Weight	24.8Kg
Terminal Type	M10
BCI Group NO.	4D
Cell Type-Chemistry	prismaticLiFePO4

CHARGE&DISCHARGECHARACTERISTICS	
Voltage Window	10-14.6V
Max.Continuous Charge Current	200A
Max.Continuous Discharge Current	200A
Peak Discharge Current	400A （1s）

Recommended charging/discharging current	Current:≤200A

Since the charging and discharging of 200A will generate a large amount of heat, if continuous charging and discharging is used, the heat will accumulate and frequent temperature protection will occur. It is recommended that the interval time between charging and discharging should be more than 30min (25℃).

Continuous peak discharging current	Current:230A
	Suggested time:10min
Discharging Protection	Current::450-550
	Delaytime:9~15ms
Overcharge Voltage Protection	Cell Voltage:3.75V±0.025V
	Delaytime:1.0-1.6s
Over-discharge Voltage Protection	Cell Voltage:.2.30V±0.05V
	Delaytime:115-175ms
Temperature Protection	PCB： 90±5℃ cell： 65±5℃
	Recover： Let stand for 30 min &Charging
Communicating Function	/

OPERATINGCONDITIONS	
Cycle Life	≥2,000
Operating Temperature	Charge: 0℃~60℃
	Discharge:-30℃~60℃
Storage Temperature	0℃~30℃
Storage Duration	12 months at 25℃
Heating Function	/

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Constant Current Discharge Data(Amperes@25℃)

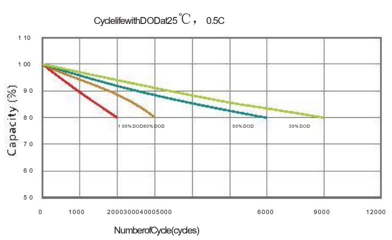
	1h	2h	3h	5h	10h
Cut-offvoltage(10.8V)	200A	100A	67A	40A	20A

Constant Power Discharge Data(Watts@25℃)

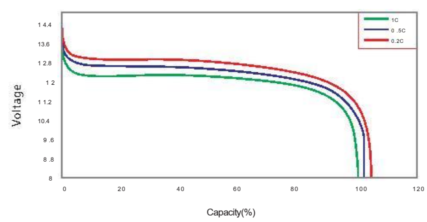
	1h	2h	3h	5h	10h
Cut-offvoltage(10.8V)	2305w	1175w	803w	482w	251w

Cycle No.Vs DOD%

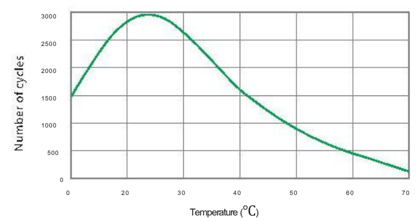
NumberofCyclesVs.DOD



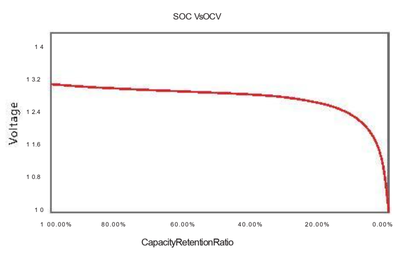
DischargePerformanceatR.T.



CycleLifeinRelationtoTemperature



BatteryCapacity(C)Vs.OpenCircuitVoltage(OCV)



BatteryCapacityVs.ChargingTime

TemperatureEffectsonCapacity