



# Iron-V

## LFP24-30EV (24V 30Ah) Specification

### Iron-V Lithium Iron Phosphate Battery



## Features

Cost Effectiveness



Smart Management



Longer Service Life



Guaranteed Safety



Fast Charge



Drop-in Replacement



## Technical Characteristics

### NORMINAL CHARACTERISTICS

Nominal Voltage	25.6 V
Nominal Capacity	30Ah
Energy	768Wh
IR	≤30mΩ@100%SOC
Efficiency	≥99.5%
Maximum Modules in Series	1 (Single Use)

### CHARGE & DISCHARGE CHARACTERISTICS

Voltage Window	21.6-29.2V
Max. Continuous Charge Current	30A
Max. Continuous Discharge Current	30A
Peak Discharge Current	70A (≥10s)

### OPERATING CONDITIONS

Cycle Life	≥2000
Operating Temperature	Charge: 0°C~60°C Discharge: -20°C~60°C
Storage Temperature	-20°C ~ 30°C
Storage Duration	12 months at 25°C
Heating Function	/

### MECHANICAL CHARACTERISTICS

Case Material	ABS
Dimension (L*W*H)	229*138*213
Weight	9.4Kg
Terminal Type	F11 (M6)
IP Grade	/
BCI Group NO.	22
Cell Type-Chemistry	Prismatic LiFePO <sub>4</sub>

### BMS CHARACTERISTICS

Primary Charging Protection	Current:30~45A Delaytime:28~32s
Secondary Charging Protection	Current: ≥45A Delaytime:1~3s
Primary Discharging Protection	Current: 35A~70A Delaytime:13~17s
Secondary Discharging Protection	Current: 70A~150A Delaytime:1~3s
Over-charge Voltage Protection	Voltage:29.2~31.2V Delaytime:1~2s
Over-discharge voltage protection	Voltage:18~20V Delaytime:1~2s
Temperature Protection	PCB temperature≥80°C Recover≤65°C
Communicating Function	/



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### Constant Current Discharge Data (Amperes@25°C)

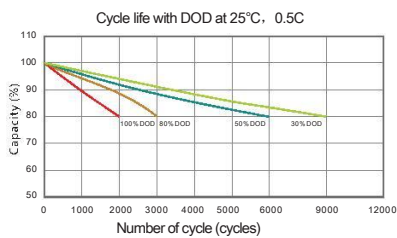
	1h	2h	3h	5h	10h
Cut-off voltage (21.6V)	30A	15A	10A	6A	3A

### Constant Power Discharge Data (Watt@25°C)

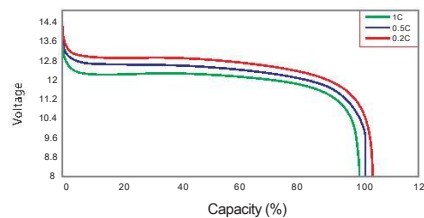
	1h	2h	3h	5h	10h
Cut-off voltage (21.6V)	345W	174W	116.5W	70.2W	35.4W

### Cycle No. Vs DOD%

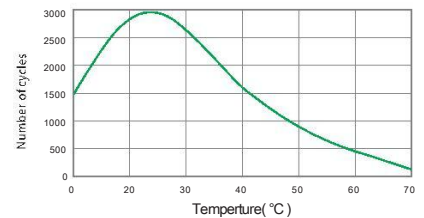
Number of Cycles Vs. DOD



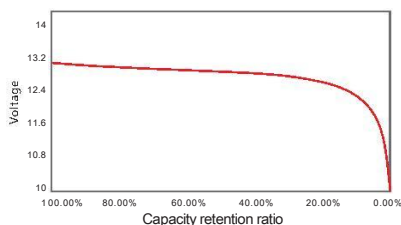
Discharge Performance at R.T.



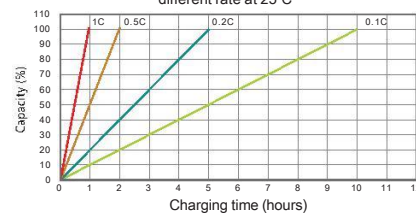
Cycle Life in Relation to Temperature



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

