

High Energy Large Format Prismatic Rechargeable Cell Specifications

Lithium Iron Phosphate (LFP)

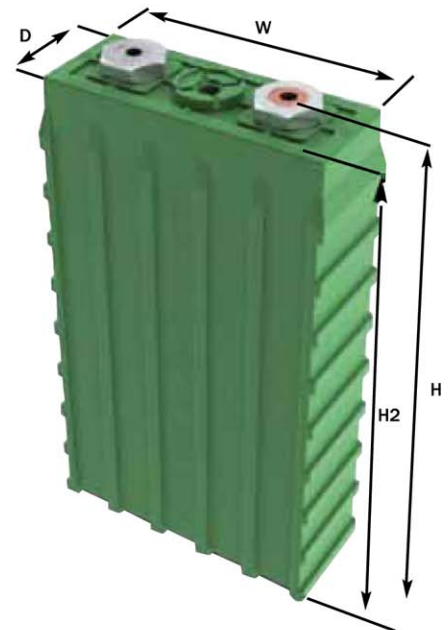
International Battery's Lithium Iron Phosphate (LFP) rechargeable cells are available in rugged, prismatic, large format in capacity of 40 Ah, 60 Ah, or 160 Ah. LiFePO₄ cathode material is intrinsically safe and is non toxic to the environment. International Battery offers superior quality LFP cells with high discharge currents, longer cycle life, low resistance, and low self discharge. Prismatic cell geometry allows for efficient packaging with excellent thermal and heat dissipation properties. International Battery's large cell format reduces complexity in system's integration and allows for optimum system control management.

Features:

- High energy density
- Low resistance
- Longer cycle life
- High discharge currents
- Low self discharge
- UN Certified

Applications:

- Military Applications
- Smart Grid
- Electric Vehicle EV
- Back up power
- Telcom energy
- ESS, APU, DES, BESS
- Well suited for mobile & stationary energy storage

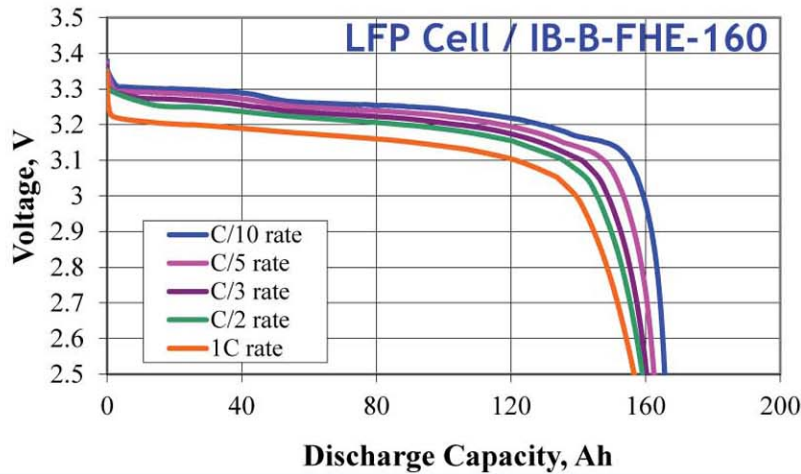
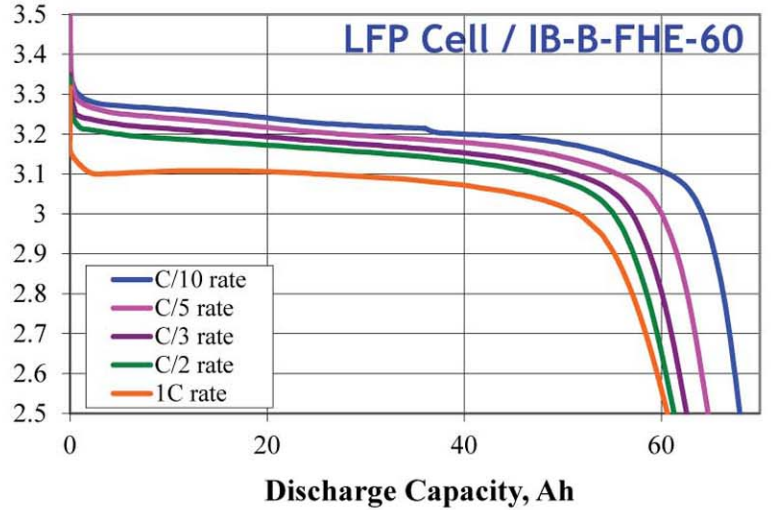
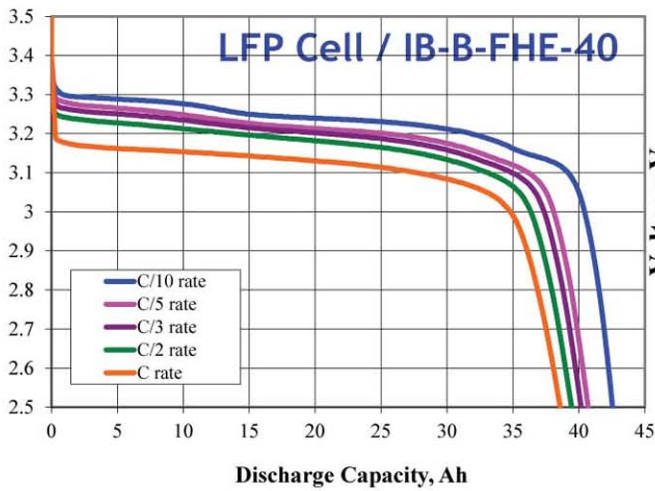


Dimensions (inches / mm)						
	IB-B-FHE-40		IB-B-FHE-60		IB-B-FHE-160	
H	7.39"	188mm	8.18"	208mm	11.06"	281mm
W	4.49"	114mm	4.49"	114mm	7.16"	182mm
D	1.81"	46mm	2.38"	60mm	2.80"	71mm
+ to -	2.40"	61mm	2.40"	61mm	4.17"	106mm
H2	7.14"	181mm	7.92"	201mm	10.76"	274mm
Int. Thread	M6 x 1.00		M6 x 1.00		M8 x 1.25	

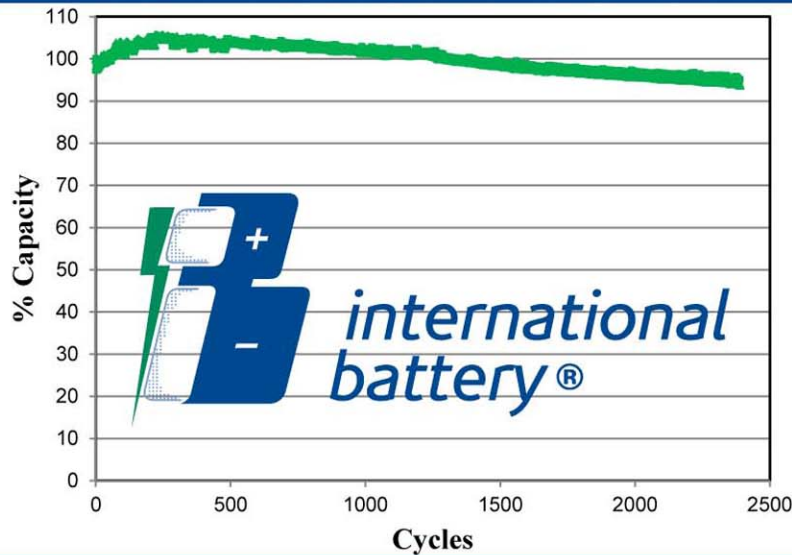
Lithium Iron Phosphate Rechargeable Cells			
Specifications	Model: IB-B-FHE-40	Model: IB-B-FHE-60	Model: IB-B-FHE-160
Nominal Capacity at 25°C	40 Ah @ C/3	60 Ah @ C/3	160 Ah @ C/3
Nominal Voltage	3.20 Volts	3.20 Volts	3.20 Volts
Recommended Charging Method, CC-CV	CC: 13.3A to 3.60V, CV: 3.60V to 2A	CC: 20A to 3.60V, CV: 3.60V to 3A	CC: 53.3A to 3.60V, CV: 3.60V to 8A
Operating Voltage range	3.60V - 2.50V	3.60V - 2.50V	3.60V - 2.50V
Maximum Continuous Charge Current	20A	30A	80A
Maximum Continuous Discharge Current	120A	180A	480A
Recommended maximum Pulse Discharge (< 30 sec. at 25°C)	5C rate	5C rate	5C rate
DC Pulse Resistance (5C/30 sec. @ 40%SOC at 25°C)	2.5 mΩ	1.5 mΩ	0.65 mΩ
Cycle Life @25°C(C/3 rate @ 100% DOD)	>3000 cycles	>3000 cycles	>3000 cycles
Operating Temperature: (Charge)	0°C to 50°C	0°C to 50°C	0°C to 50°C
Operating Temperature: (Discharge)	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
Storage Temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Specific Energy @ C/3	88 Wh/kg	94 Wh/kg	97 Wh/kg
Self Discharge at 25°C	< 3%	< 3%	< 3%
Calendar Life	10 years	10 years	10 years
Cell Weight	1.45 kg / 3.2 lbs	2.2kg / 4.8 lbs	5.4 kg / 11.9 lbs

High Energy Large Format Prismatic LFP Cells

Discharge Characteristics at 23°C



C/3 Cycle Life at Ambient Temperature for IB-B-FHE LFP Cells at 100% DOD



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY DNV
ISO 9001:2008



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