

LITHIUM IRON PHOSPHATE BATTERY DATA SHEET EX-EX2-12240-BCH (12.8 V / 240 Ah)



PERFORMANCE: Long Cycle Life
High Energy Density
High Power
Fast Charging
Low Weight

FEATURES: Integrated Battery Management System (BMS) for safety and reliability.
Premium ABS plastic case.
Tie-down system accessories (sold separately).

Electrical Parameters	
Nominal Voltage	12.8 Vdc
Rated Capacity	240 Ah
Rated Energy	3072 Wh
Resistance	≤5 mΩ
Efficiency	>99%
Cycle Life	>3500 cycles at 1C, 100% DoD
Cell Self-Discharge	<5 % per month
Features	Bluetooth, RS485, CAN Bus, VHC internally heated.

Mechanical Parameters	
Dimensions	4.2 in x 17.5 in x 21.9 in
	106 mm x 445 mm x 557 mm
Weight	67 lb (30.4 kg)
Terminal Rating	Insulated Terminal 200 A
Battery Housing	ABS
Housing Flammability Rating	UL-94 V-0
Cell Type (Chemistry)	Cylindrical (LiFePO ₄)
IP Rating	IP40

Discharge Parameters	
Optimum Discharge Current	120 A
Max. Discharge Current	200 A
Pulse Discharge Current	250 A (3s)/300 A (1s)
Recommended Volt. Disconnect	12 Vdc
BMS Discharge Cut-off Voltage	10 Vdc

Charge Parameters	
Charge Method	CC-CV
Recommended Charge Voltage	14.6 Vdc
Recommended Float Voltage	13.6 Vdc
Recommended Charge Current	60 A
Maximum Charge Current	150 A (3s)/180 A (1s)
BMS Charge Cut-off Voltage	14.6 Vdc

Compliance	
Certifications	UL 1642 For Cells, File no. MH64383
	UN3480, Class 9, UN38.3
	Certified compliant to UL 1973 by TEI Listing Services, File no. 22D01

Temperature Parameters	
Discharge Temperature	-4°F to 140°F (-20°C to 60°C)
Charge Temperature	32°F to 130°F (0°C to 55°C)
Storage Temperature	32°F to 77°F (0°C to 25°C)

NOTE: Do not install outside. Do not mix voltages, capacities, ages, or battery chemistries. Do not mix with lead-acid batteries when recycling. See Expion360, Inc. user's manual for proper operation.

DISCLAIMER: While every precaution has been taken to ensure the accuracy of the contents within this document, Expion360, Inc. assumes no responsibility for errors or omissions. Specifications and product functionality may change without notice.

STORAGE: One discharge-recharge cycle every 6 months.



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