

LITHIUM IRON PHOSPHATE BATTERY DATA SHEET EX-GC2-12162-(BCH) (12.8 V / 162 Ah)



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

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

Electrical Parameters	
Nominal Voltage	12.8 Vdc
Rated Capacity	162 Ah
Rated Energy	2073 Wh
Resistance	<5 mΩ
Cycle Life	>4000 cycles at 1C, 100 % DoD
Cell Self-Discharge	<5 % per month
Options	Bluetooth™, CAN Bus, Internal Heater

Discharge Parameters	
Optimum Discharge Current	80 A
Max. Discharge Current	150 A
Pulse Discharge Current	180 A (3 s) 225 A (1 s)
Recommended Volt. Disconnect	12 Vdc
BMS Discharge Cut-off Voltage	10 Vdc

Compliance	
Certifications	UL 1642 For Cells, File no. MH64383
	UN3480, Class 9, UN38.3, UL1973 Pending

Mechanical Parameters	
Dimensions	10.2 in x 7.1 in x 10.9 in (260 mm x 181 mm x 276 mm)
Weight	38.5 lb (17.5 kg)
Terminal Thread	M 8 x 1.25
Battery Housing	ABS
Terminal Material	Brass
Cell	LiFePO ₄

Charge Parameters	
Charge Method	CC-CV
Recommended Charge Voltage	14.6 Vdc
Recommended Float Voltage	13.8 Vdc
Recommended Charge Current	36 A
Maximum Charge Current	72 A
BMS Charge Cut-off Voltage	14.6 Vdc

Temperature Parameters	
Discharge Temperature	-4 °F to 150 °F (-20 °C to 65 °C)
Charge Temperature	32 °F to 140 °F (0 °C to 60 °C)
Storage Temperature	-4 °F to 113 °F (-20 °C to 45 °C)

NOTE: Do not mix voltages, capacities, ages, or battery chemistries.
Do not mix with lead-acid batteries when recycling.
See Expon360, Inc. user's manual for proper operation.

DISCLAIMER: While every precaution has been taken to ensure the accuracy of the contents within this document, Expon360, Inc. assumes no responsibility for errors or omissions. Specifications and product functionality may change without notice.

STORAGE: One discharge-recharge cycle every 6 months.