



## LITHIUM IRON PHOSPHATE BATTERY DATA SHEET

EX-GC2-48036-(BCH) (51.2 Vdc/36 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	51.2 Vdc	
Rated Capacity	36 Ah	
Rated Energy	1843.2 Wh	
Resistance	<50 mΩ	
Cycle Life	>4000 cycles at 1C, 100 % DoD	
Cell Self-Discharge	<5 % per month	
Options	Bluetooth™, CAN Bus	

Discharge Parameters		
Optimum Discharge Current	36 A	
Max. Discharge Current	72 A (10 s)	
Pulse Discharge Current	108 A (3 s)	
Recommended Volt. Disconnect	44 Vdc	
BMS Discharge Cut-off Voltage	40.8 Vdc	

Compliance		
Certifications	UL 1642 For Cells, File no. MH64383	
	UN3480, Class 9, UN38.3, UL2271 Pending	

NOTE: A minimum of three batteries for golf a cart application is

recommended. see Expion360 GC2 user manual for details. Do not mix voltages, capacities, ages, or battery chemistries. Do not mix with lead-acid batteries when recycling.

See Expion 360, Inc. user's manual for proper operation. DISCLAIMER: While every precaution has been taken to ensure the accuracy of

the contents within this document, Expion 360, Inc. assumes no responsibility for errors or omissions. Specifications and product

functionality may change without notice.

STORAGE: One discharge-recharge cycle every 6 months.

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 <sub>4</sub>	

Charge Parameters		
Charge Method	CC-CV	
Recommended Charge Voltage	58.0 Vdc	
Recommended Float Voltage	55.2 Vdc	
Recommended Charge Current	7.2 A	
Maximum Charge Current	18 A	
BMS Charge Cut-off Voltage	58.4 Vdc	
Max. Current from Regenerative Braking	72 A (10 s)	

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)	



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