



LITHIUM IRON PHOSPHATE BATTERY DATA SHEET

EX-G24-80C (12.8 Vdc/81 Ah)

PERFORMANCE: Long Cycle Life

High Energy Density High Discharge Current **Fast Charging** Maintenance Free

Low Weight

FEATURES: Certified compliant to UL 1973 with grade A UL Recognized cells

360-degree mounting with tie-down system accessories

Integrated Battery Management System (BMS) for safety and reliability

Oversized terminal connection pads

Premium fiberglass reinforced ABS plastic case

Electrical Parameters		
Nominal Voltage	12.8 Vdc	
Rated Capacity	81 Ah	
Energy	1036 Wh	
Resistance	<5 mΩ	
Efficiency	>99 %	
Cycle Life	>4000 cycles at 1C, 100 % DoD	
Cell Self-Discharge	<2 % per month	
Cells in Series/Parallel	4S/24P	

Discharge Parameters		
Continuous Discharge Current	60 A	
Max. Discharge Current	80 A	
Pulse Discharge Current	100 A (1 s)	
Recommended Volt. Disconnect	10.5 Vdc	
BMS Discharge Cut-off Voltage	9.2 Vdc	
Short Circuit Protection	200 µs to 600 µs	

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	

NOTE: Do not mix with lead-acid batteries when recycling.

See Expion360, Inc. user's manual for proper operation.

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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 6.8 in x 8.6 in	
	(260 mm x 173 mm x 218 mm)	
Weight	24 lb (10.9 kg)	
Terminal Thread	M 8 x 1.25	
Battery Housing	ABS Plastic Case	
Housing Protection	IP66	
Housing Flammability Rating	UL-94 V-0	
Cell Type (Chemistry)	Cylindrical (LiFePO ₄)	

Charge Parameters		
Charge Method	CC-CV	
Recommended Charge Voltage	14.6 Vdc	
Recommended Float Voltage	13.6 Vdc	
Recommended Charge Current	20 A	
Maximum Charge Current	40 A	
BMS Charge Cut-off Voltage	14.6 Vdc	

Temperature Parameters		
Discharge Temperature	-4 °F to 140 °F (-20 °C to 60 °C)	
Charge Temperature	32 °F to 140 °F (0 °C to 60 °C)	
Storage Temperature	32 °F to 95 °F (0 °C to 35 °C)	





