

LBP 52v 10kw - 192Ah

48Volt 9,954W Lithium Ion Battery

LBP's 48v 192Ah is a high-performing deep cycle, 48 volt battery, built on patented Lithium Iron Manganese Phosphate chemistry. The LBP48V192AH features a built-in automatic battery management system (BMS) that keeps the battery running at peak performance for maximizing cell cycle life. Custom designed, The LBP48V192AH is powerhouse for any application that currently uses a high energy demand needing to last for hours or even days of service. (Application Determined)



Overview



The LBP48V192AH is ideal for mission-critical, material handling or stationary - standby energy storage applications. The module's inherent safety, long cycle life, and zero maintenance offers end-users the assurance of 24/7 system uptime, while delivering significant cost-of-ownership over alternatives to lead acid by replacing with this reliable lithium ion solution performing with at least twice the run-time and <70% of the weight of similarly sized SLA batteries. The internal Battery Management System (BMS) operates seamlessly with any application. The battery system manages all battery module parameters in real-time.

Features

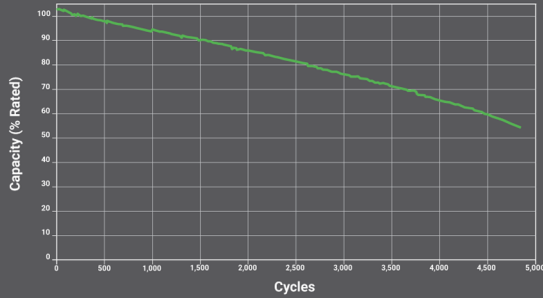
- >3000 cycles at 80% DOD
- Create systems 10kW - 1000's of kW's
- Series and/or parallel operation
- Automatic system cell balancing
- Temperature monitoring
- Exceptional voltage stability
- Rugged mechanical design
- Maintenance-free
- No hydrogen generation or gassing
- **CAN interface for external BMS monitoring by LCD, PC Software, LIN, CAN Clusters**

Specifications		
Nominal Voltage		51.8 V
Nominal Capacity @ 1C		192AH
Charge Voltage		57.7V - 58.8V
Charge Current	Recommended	≤ 95 A
	Max Continuous ¹	100 A
Discharge Voltage Minimum		41.3 V
Discharge Current Max Continuous ¹		200 A
Pulse Current 5 Sec		550A
Weight		136.0 lb. / 61.7 kg
Dimensions L x W x H (including terminals)		36.75" x 19.75" x 4"
BCI Group Number		CUSTOM
Terminals, Female-threaded		Brass M10x1.25 QR 3/8-16
DC internal resistance (max)		>18.8 mΩ

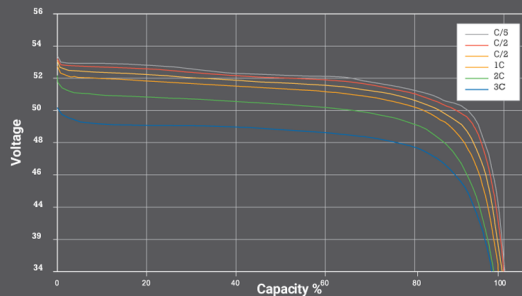
Common Specifications

Operating Temperature	Charging: -10°C to 45°C Discharging: -20°C to 70°C
Storage Temperature	-40°C to 50°C
Operating Humidity	5% to 95%, non-condensing
Water/dust Resistance	IP54
Ingress Protection (IP) of Solids 5	Protected against harmful deposits of dust 
Ingress Protection (IP) of Water 4	Protected from water spray from any direction 
Certifications	UL 1642 (cells) FCC Class B, CE
Shipping Classification	UN 3480, Class 9 UN 38.3

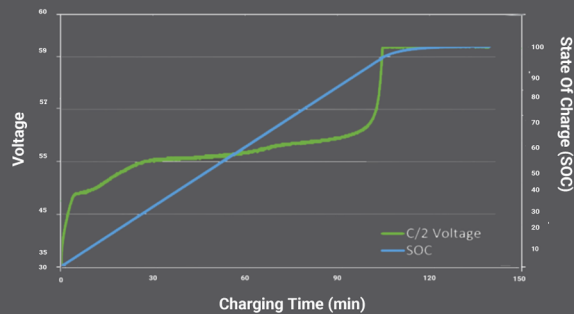
Discharge Cycle Life Performance at 25°C
C/2 cycling (100%DOD)



Voltage Profiles at Various Rates 25°C Ambient Temperature



Typical C/2 Charging Voltage 25°C Ambient Temperature



Battery Management System

All LBP modules include a Battery Management System (BMS). The BMS maintains all the batteries charge/dis-charge controls.

Parameters	Value	
Voltage	Charging voltage cutoff	60.5±1%
Current	Maximal continuous charging current	≤120A
	Maximal continuous discharging current	≤200A
	Power consumption	<2.25W
Overcharge Protection	Over charge detection voltage	4.2V±0.025V
	Over charge detection delay time	0.96S~1.24S
	Over charge release voltage	4.0V±0.05V
Discharge Protection	Discharge cutoff voltage – Instant Recovery	2.75V±0.08V
	Over discharge detection voltage	2.25V±0.08V
	Over discharge detection delay time	<180mS
Over Discharge Protection	Over discharge release voltage	2.5V±0.1V
	Detection condition	Exterior short circuit
	Detection delay time	230~500uS
Short Circuit Protection	Release condition	Cut load, automatically recover
	Over temperature protection	75°C

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Performance may vary depending on, but not limited to battery usage and application. If battery is used outside specifications, performance will diminish. All specifications are subject to change without notice. All information provided herein is believed, but not guaranteed, to be current and accurate.

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