LITHIUM BATTERY POWER

24v 150Ah

24 Volt Lithium Ion Battery

LBP 24v 150Ah is a high-performing deep cycle, 24 volt battery, built on patented Lithium Iron Manganese Phosphate chemistry. The LBP24v150Ah features a built in automatic battery management system (BMS) that keeps the battery running at peak performance for maximizing cell cycle life. Designed as a "drop in replacement" LBP24V150Ah is plug and play battery for any application that currently uses a lead acid, gel or agm battery.

Overview

The LBP24v75Ah 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.

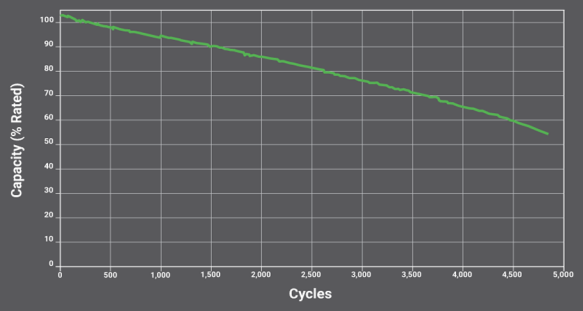
Features

- >4000 cycles at 80% DOD
- Create systems 24 - 1000 V
- Series and/or parallel operation
- Automatic system cell balancing
- Temperature monitoring

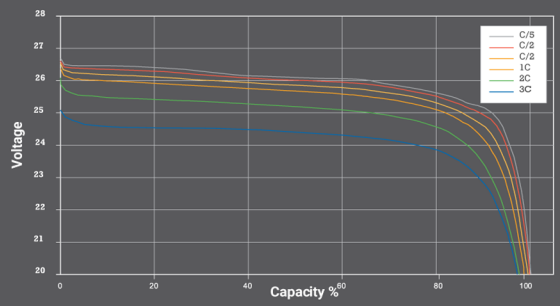
- Exceptional voltage stability
- Rugged mechanical design
- Footprint of Group 8D lead acid case
- Maintenance-free
- No hydrogen generation or gassing
- **Stock available for quick delivery in US or worldwide.**

Specifications		
Nominal Voltage		25.9 V
Nominal Capacity @ 1C		150Ah
Charge Voltage		29.2V - 29.6V
Charge Current	Recommended	≤ 50A
	Max Continuous[1]	100 A
Discharge Voltage Minimum		19.25 V
Discharge Current Max Continuous[1]		150 A
Pulse Current 5 Sec		500 A
Weight		54.0 lb / 14.4 kg
Dimensions L x W x H (including terminals)		20.7"/525mm x 10.4"/265mm x 8.7"/220mm
BCI Group Number		Group 8D
Terminals, Female-threaded		3/8" x 1.25
DC internal resistance (max)		<10 mΩ

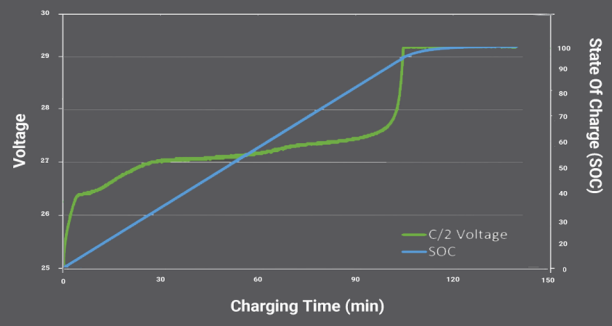
Discharge Cycle Life Performance at 25°C
C/2 cycling (100%DOD)



Voltage Profiles at Various Rates 25°C Ambient Temperature



Typical C/2 Charging Voltage 25°C Ambient Temperature



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	IP56
Ingress Protection (IP) of Solids 5	Protected against harmful deposits of dust 
Ingress Protection (IP) of Water 6	Protected against strong jets of water 
Cer	UL 1642 (cells) FCC Class B, CE
	UN 3480, Class 9 UN 38.3

Battery Management System

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

Parameters		Value
Voltage	Charging voltage cutoff	30.4±1%
Current	Maximal continuous charging current	≤75A
	Maximal continuous discharging current	≤150A
	Power consumption	<5mW
Overcharge Protection	Over charge detection voltage	4.3V±0.025V
	Over charge detection delay time	0.96S~1.24S
	Over charge release voltage	4.1V±0.05V
Discharge Protection	Discharge cutoff voltage – Instant Recovery	2.75V±0.08V
Over Discharge Protection	*Over* discharge detection voltage	2.25V±0.08V
	Over discharge detection delay time	<180mS
	Over discharge release voltage	2.5V±0.1V
Short Circuit Protection	Detection condition	Exterior short circuit
	Detection delay time	230~500uS
	Release condition	Cut load, automatically recover
Temperature protection	Over temperature protection	75℃

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