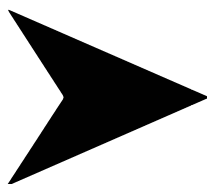


VOLTECH



LB12120P-150AD 12.8V - 120AH (1536Wh)



Voltech Lithium LiFePO4 Series Batteries provide superior performance, capacities and reliability. Using state of high power cell technology the lithium series is designed for environmentally sensitive areas that require enhanced cycle life capabilities in commercial, industrial, residential, and private applications. The maintenance free construction and advanced design features makes the lithium Series the definitive choice for a wide variety of markets; Solar and Renewable Energy Storage; Electric Vehicle and Golf cart; Industrial equipment, Floor Machines, Forklifts, Aerial lifts, Robotics, Marine, Caravan, Motorhome, RV, Mobility and Medical Equipment, Telecom, Broadband and Cable TV; UPS systems.

150 Amp Discharge!



Applications



BATTERY SPECIFICATIONS

Battery Type - Chemistry	LiFePO4	Internal Resistance - Milliohms	< 50 mΩ
Nominal Voltage	12.8 V	Efficiency - round trip	> 99.5 %
Amp Hour Capacity	120 AH	Self Discharge per Month	< 3 %
Energy Density	1536 Wh	Max 4 - series connections	12-48 V
Dimensions(LxWxH)	330*172*220 mm	Parallel connections	No Limited
Weight	13.5 KGS	Case IP Rating	IP56
Terminal Type	M8	DesignLife	20 Years
Terminal Torque	12.4 NM	Cycle Life (1C, 25°C@80%DOD)	>4000 cycles
Case Material	ABS	Cycle Life (0.2C, 25°C@80%DOD)	>6000 cycles
BMS build-in	Yes		
		Discharge Temperature	(-23 to 65) °C
Recommend Charge Voltage	14.2 ±0.20V	Charge Temperature	(-3 to 65) °C
Max Charge Voltage	14.8 ±0.20V	Storage Temperature	(-20 to 45C) °C
Recommend Charge current	50 A		
Max Charge Current	120 A	Certifications	CB / CE / UN38.3 / UL1642 @ cell
Charge Current (0 to -10°C)	<0.1 C	Shipping Classification	UN3480, CLASS 9
Charge Current (-20 to -10°C)	<0.05 C		
Recommend Discharging voltage	11.8 ±0.20V		
Max Discharging Voltage	9.6 ±0.20V		
Max Discharge Current	150 A		
Pulse Discharge Current	210 A±3S		

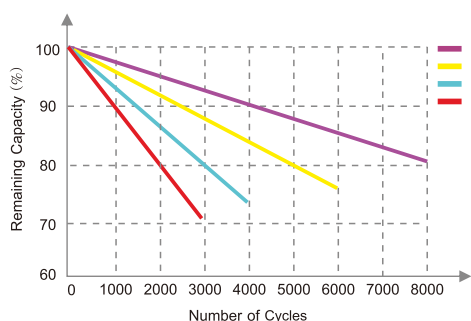
For more information, contact with: sales@electroparts.com.au

BMS SPECIFICATIONS

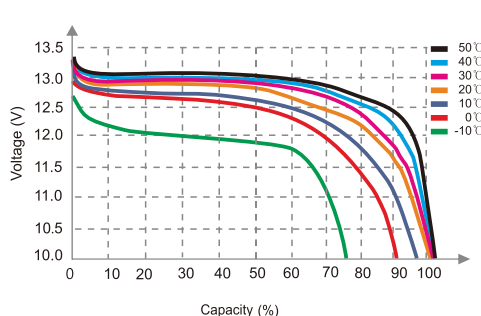
BMS Version :LL

BMS Protections Range:		Over (Voltage, Current, Temperaturemanagement) and cell balance			
Over Charging Cell protection	>3.80	±0.05V	Delay	2 ±0.5S	
Over Charging Pack protection	>14.8	±0.20V	Delay	2 ±0.5S	
Over Charging Current 1	>200	±2.0A	Delay	15 ±2.0S	
Over Charging Current 2	>220	±2.5A	Delay	2 ±1.0S	
OverCharging Temp Protection 1	<-0 or>65	±3°C	Release	>3 or < 60 ±3°C	Delay:2±0.5S
Over Discharging Cell protection	<2.1	±0.05V	Delay	2 ±0.5S	
Over Discharging Pack protection	<9.6	±0.20V	Delay	2 ±0.5S	
Over Discharging current 1	>205	±2.5A	Delay	15 ±2.0S	
Over Discharging current 2	>250	±2.5A	Delay	3 ±1.0S	
Over Discharging current 3	NA				
Over Discharging Temp Protection 1	<-20 or>65	±3°C	Release	>-15 or < 60 ±3°C	
PCB Temp protection	>95	±3°C	Release	< 75 ±3°C	Delay:2±0.5S
Cell Balance Start		3.5 ±0.05V			
Balance Current		150 ±20mA			
Short circuit	Load Short circuit		Delay	1 ±0.5ms	
Power consumption	<300	uA	Switch-off mode	Storage & transportation	
	<500	uA	Sleep mode	Protection & stand-by	
	<15	mA	Operating mode	Operating	
	<28	mA	Operating mode	Low voltage to start Pre-charge	
Temperature accuracy	±2	°C	Measuring range -40~100°C		
Voltage accuracy	±20	mv	For cells and module		
Current accuracy	FSC	±5%	Measuring range -200~+200A		
SOC	±5%		Integral calculation		

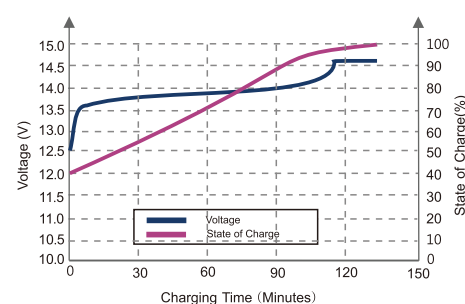
Different DOD Discharge Cycle Life Curve 1C 25°C



Different Temperature Discharge Curve(0.2C)



State of Charge Curve(0.5C, 25°C)



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