VOLTECH

LB-12100P
12.8V - 100AH (1280Wh)

Voltech Lithium 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.

CE in Europe · RoHS in Europe · UL in US · UN38.3 UN38.3 in Europe · REACH REACH in Europe · IEC IEC Certificates

Applications

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8	V
Amp Hour Capacity	100	AH
Reserve Capacity @ 30A	200	min
Energy Density	1280	Wh
Resistance - Milliohms	< 50	
Efficiency - round trip	> 99.5%	
Self Discharge per Month	< 3%	
Max 4 - series connections	12-48V	
Parallel connections	No Limited	

DISCHARGE SPECIFICATIONS

Max Cont Discharge current	100	A
Peak Discharge Current 3C	300	A
BMS Current Cut Off	>100.5A	10S
BMS Current Cut Off	>120A	3S
BMS Current Cut Off	>150A	1S
BMS Voltage Cut Off	10V	
BMS Reconnect Voltage	12V	

TEMPERATURE SPECIFICATIONS

Discharge Temperature	(-20 to 60C)
Charge Temperature	(-20 to 45C)
Storage Temperature	(-5 to 35C)
BMS High Temp Cut Off	80C
BMS Reconnect Temp	50C
IP	50

MECHANICAL SPECIFICATIONS

Dimensions	260X170X230mm
Weight	11 KGS
Terminal Type	M8
Terminal Torque	12.4NM
Case Material	ABS
Case IP Rating	IP56
Cell Type - Chemistry	LiFePO4
Cell Type	Prismatic

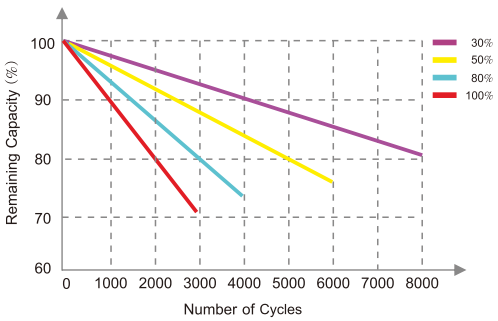
CHARGE SPECIFICATIONS

Recommend Charge current	50A
Max Charge current	100A
Recommend Charge voltage	14.2 - 14.6V
BMS Charge voltage cut off	15.0V
BMS Reconnect voltage	14.4V
Balancing voltage	13.6

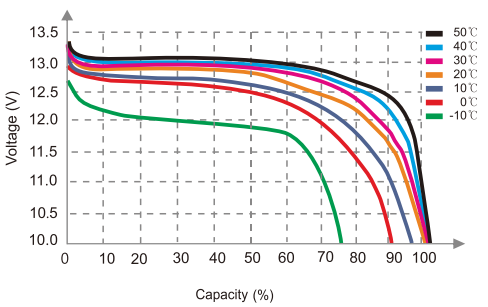
Safety and Performance Specifications

Certifications	CB / CE UN38.3 UL1642 @ cell
Shipping Classification	UN3480, CLASS 9

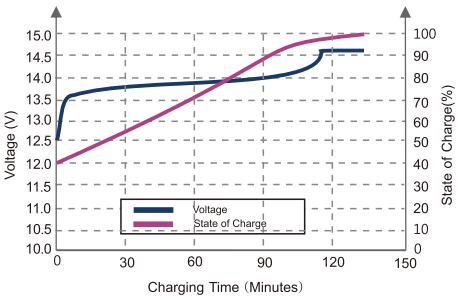
Different DOD Discharge Cycle Life Curve 1C 25C



Different Temperature Discharge Curve(0.2C)



State of Charge Curve(0.5C, 25℃)



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