About Lithium Valley



Dongguan Lithium Valley Energy Co., Ltd., a subsidiary of Zongshen Group(001696.SZ), was founded in 2013. The company specializes in the development and manufacturing of independent power system solutions that are applied in recreational vehicles, utility vehicles, commercial vehicles, and other professional vehicles, as well as in boats and marine engineering platforms, covering power generation, conversion, storage, digital distribution, intellectual monitoring, IoT and other professional modules.We continue to invest in new energy product design, technology research and development, and global services, constantly innovate products and solutions based on scenario characteristics and needs, and reshape the relationship between people and energy. It provides individual and home users with a safe, efficient, smart and stable new power consumption experience in mobile spaces, sudden power outages, remote power outages, etc.

80000m²
FACTORY AREA

$10 M
REGISTERED CAPITAL

10GWh+
DELIVERED CAPACITY

Powered by
ZONGSHEN POWER(001696.SZ)



Lithium Valley
Making the world a green valley!



Contact us

Version: V2.3

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LITHIUMVALLEY



LiFePO4 BATTERY

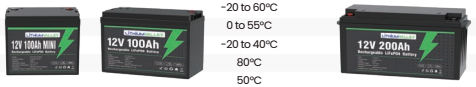
Lead Acid Replacement Battery

Dongguan Lithium Valley Energy Co., Ltd .

LiFePO4 BATTERY

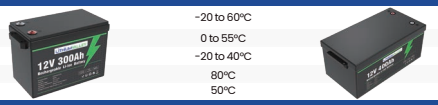
12.8V 100AH 12.8V 200AH

Model	12.8V 100AH	12.8V 200AH
Electrical specification		
Nominal voltage	12.8V	
Nominal capacity	100AH	200AH
Capacity @20A	5HR	10HR
Energy	1280WH	2560WH
Resistance	≤20mΩ	
Efficiency	99%	
Self discharge	<3% per month	
Discharge specification		
Max. cont. discharge	100A	200A
Peak discharge current	150A	250A
Discharge cut-off voltage	10.8V	
Charge specification		
Recommended charge current	50A	100A
Max. charge current	100A	200A
Max charge voltage	14.6V	
Charge current (-20 to -10℃)	≤0.05 C	
Mechanical specification		
Dimensions(L*W*H)	260*168*211mm / 330*173*217mm	484*168*240mm
Net/Gross Weight	10kg/10.7kg / 11.5kg/12kg	19.5kg/20.5kg
Terminal type	M8 Screw	
Case material	ABS case	
Enclosure protection	IP65	
Cell type	Square Aluminum Case	
Expansion Function	Heating/Bluetooth/Switch/DisplayScreen	
Temperature specification		
Discharge temperature	-20 to 60℃	
Charge temperature	0 to 55℃	
Storage temperature	-20 to 40℃	
BMS High temperature	80℃	
Reconnect temperature	50℃	
Certificates		
	UL1973, UN38.3, MSDS	UN38.3, MSDS



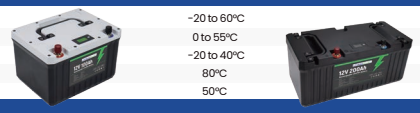
12.8V 300AH 12.8V 400AH

Model	12.8V 300AH	12.8V 400AH
Electrical specification		
Nominal voltage	12.8V	
Nominal capacity	300AH	400AH
Capacity @20A	15HR	20HR
Energy	3840WH	5120WH
Resistance	≤20mΩ	≤50mΩ
Efficiency	99%	
Self discharge	<3% per month	
Discharge specification		
Max. cont. discharge	200A	
Peak discharge current	250A	
Discharge cut-off voltage	10.8V	
Charge specification		
Recommended charge current	150A	200A
Max. charge current	200A	
Max charge voltage	14.6V	
Charge current (-20 to -10℃)	≤0.05 C	
Mechanical specification		
Dimensions(L*W*H)	384*194*255mm	520*267*220mm
Net/Gross Weight	26kg/27kg	39kg/40.5kg
Terminal type	M8 Screw	
Case material	ABS case	
Enclosure protection	IP65	
Cell type	Square Aluminum Case	
Expansion Function	Heating/Bluetooth/Switch/DisplayScreen	
Temperature specification		
Discharge temperature	-20 to 60℃	
Charge temperature	0 to 55℃	
Storage temperature	-20 to 40℃	
BMS High temperature	80℃	
Reconnect temperature	50℃	
Certificates		
	UN38.3, MSDS	



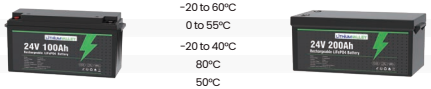
12.8V 100AH 12.8V 200AH 25.6V 100AH

Model	12.8V 100AH	12.8V 200AH	25.6V 100AH
Electrical specification			
Nominal voltage	12.8V		25.6V
Nominal capacity	100AH	200AH	100AH
Capacity @20A	5HR	10HR	5HR
Energy	1280WH	2560WH	2560WH
Resistance	≤20mΩ		≤50mΩ
Efficiency	99%		
Self discharge	<3% per month		
Discharge specification			
Max. cont. discharge	100A	200A	100A
Peak discharge current	150A	250A	150A
Discharge cut-off voltage	10.8V		21.6V
Charge specification			
Recommended charge current	50A	100A	50A
Max. charge current	100A	200A	100A
Max charge voltage	14.6V		29.2V
Charge current (-20 to -10℃)	≤0.05 C		
Mechanical specification			
Dimensions(L*W*H)	330*180*250mm / 280*210*175mm	460*210*220mm	460*210*220mm
Net/Gross Weight	9.3kg/10kg		19kg/20kg
Terminal type	M8 Screw		
Case material	ABS case		
Enclosure protection	IP65		
Cell type	Square Aluminum Case		
Expansion Function	Heating/Bluetooth/Switch/DisplayScreen		
Temperature specification			
Discharge temperature	-20 to 60℃		
Charge temperature	0 to 55℃		
Storage temperature	-20 to 40℃		
BMS High temperature	80℃		
Reconnect temperature	50℃		
Certificates			
	UL1973, UN38.3, MSDS		UN38.3, MSDS



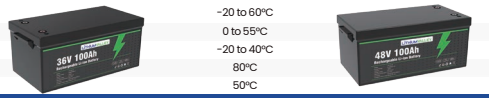
25.6V 100AH 25.6V 200AH

Model	25.6V 100AH	25.6V 200AH
Electrical specification		
Nominal voltage	25.6V	
Nominal capacity	100AH	200AH
Capacity @20A	5HR	10HR
Energy	2560WH	5120WH
Resistance	≤50mΩ	
Efficiency	99%	
Self discharge	<3% per month	
Discharge specification		
Max. cont. discharge	100A	200A
Peak discharge current	150A	250A
Discharge cut-off voltage	21.6V	
Charge specification		
Recommended charge current	50A	100A
Max. charge current	100A	200A
Max charge voltage	29.2V	
Charge current (-20 to -10℃)	≤0.05 C	≤0.05 C
Mechanical specification		
Dimensions(L*W*H)	484*168*240mm	520*267*220mm
Net/Gross Weight	19kg/20.5kg	39kg/40.5kg
Terminal type	M8 Screw	
Case material	ABS case	
Enclosure protection	IP65	
Cell type	Square Aluminum Case	
Expansion Function	Heating/Bluetooth/Switch/DisplayScreen	
Temperature specification		
Discharge temperature	-20 to 60℃	
Charge temperature	0 to 55℃	
Storage temperature	-20 to 40℃	
BMS High temperature	80℃	
Reconnect temperature	50℃	
Certificates		
	UN38.3, MSDS	



38.4V 100AH 51.2V 100AH

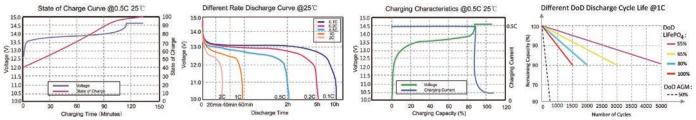
Model	38.4V 100AH	51.2V 100AH
Electrical specification		
Nominal voltage	38.4V	51.2V
Nominal capacity	100AH	
Capacity @20A	5HR	
Energy	3840WH	5120WH
Resistance	≤20mΩ	≤50mΩ
Efficiency	99%	
Self discharge	<3% per month	
Discharge specification		
Max. cont. discharge	100A	
Peak discharge current	150A	
Discharge cut-off voltage	32.4V	43.2V
Charge specification		
Recommended charge current	50A	
Max. charge current	100A	
Max charge voltage	43.8V	58.4V
Charge current (-20 to -10℃)	≤0.05 C	
Dimensions(L*W*H)	560*267*220mm	520*267*220mm
Net/Gross Weight	31.2kg/33kg	39kg/40.5kg
Terminal type	M8 Screw	
Case material	ABS case	
Enclosure protection	IP65	
Cell type	Square Aluminum Case	
Expansion Function	Heating/Bluetooth/Switch/DisplayScreen	
Temperature specification		
Discharge temperature	-20 to 60℃	
Charge temperature	0 to 55℃	
Storage temperature	-20 to 40℃	
BMS High temperature	80℃	
Reconnect temperature	50℃	
Certificates		



FEATURE & BENIFITS

1. High Cycle Life: >3000 times @ 90%DOD for effectively lower cost of ownership.
2. Built-in BMS Protection: battery management system are incorporated to protect battery from over charging, over discharging, short circuit.
3. Light Weight: dry power lithium batteries has higher energy density，wh/kg also being up to 1/3 of SLA battery.
4. Wide Operating Temperature Range: suitable for users in a wider range of applications where ambient temperature is unusually high up to +60℃.
5. Steady output voltage, vibration & shock resistant, no memory effect, pressure resistant cells.

PERFORMANCE CHARACTERISTIC



SUITABLE APPLICATIONS

- Lithium iron phosphate can be used in any application that would normally use Lead Acid, GEL, or AGM type batteries.
- LiFePO4 in 4S=12.8V and 8S=25.6V is closed to Lead Acid equivalents of the Lithium rechargeable types.
- Suitable applications included caravan, marine, golf carts, solar storage, remote monitoring, switching applications.