

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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LITHIUM VALLEY

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°C)		≤0.05C	
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°C		
Charge temperature	0 to 55°C		
Storage temperature	-20 to 40°C		
BMS High temperature	80°C		
Reconnect temperature	50°C		
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°C)	≤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°C			
Charge temperature	0 to 55°C			
Storage temperature	-20 to 40°C			
BMS High temperature	80°C			
Reconnect temperature	50°C			
Certificates				
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°C)	≤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°C			
Charge temperature	0 to 55°C			
Storage temperature	-20 to 40°C			
BMS High temperature	80°C			
Reconnect temperature	50°C			
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°C)		≤0.05 C		
Mechanical specification				
Dimensions(L*W*H)	560*267*220mm			520*267*220mm
Net/Gross Weight	312kg/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°C			
Charge temperature	0 to 55°C			
Storage temperature	-20 to 40°C			
BMS High temperature	80°C			
Reconnect temperature	50°C			
Certificates				

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°C)			≤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°C			
Charge temperature			0 to 55°C			
Storage temperature			-20 to 40°C			
BMS High temperature			80°C			
Reconnect temperature			50°C			
Certificates						
UL1973, UN38.3, MSDS			UN38.3, MSDS			

FEATURE & BENIFITS

- 1

High Cycle Life: >3000 times @ 80%DOD for effectively lower cost of ownership.
- 2

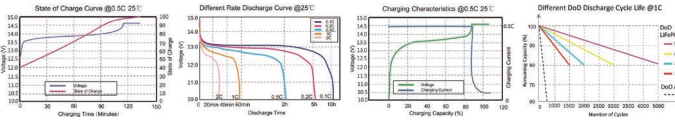
Built-in BMS Protection: battery management system are incorporated to protect battery from over charging, over discharging, short circuit.
- 3

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°C.
- 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.