



## Lithium Battery Series

### LFP48-200(48V200Ah)



VOZ 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.

VOZ lithium batteries are widely used in industrial, residential, commercial and private applications. The maintenance free construction and advanced design features makes the lithium series the definitive choice for a wide variety of markets. Like solar and renewable energy storage, electric vehicle, golf cart and industrial equipment, floor machines, forklifts, aerial lifts, and robotics; marine, RV, and no-idle solution; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems



#### Applications



#### BATTERY SPECIFICATIONS

Battery type-Chemistry	LiFePO4
Nominal Voltage	48 V
Nominal Capacity	200 Ah
Energy Density	9600 Wh
Dimensions(LxWxH)	442*600*226 mm
Weight	78.0 KGS
Terminal Type	M6
Terminal Torque	8.5 NM
Case Material	SPCC
BMS build-in	Yes
Internal Resistance	<30 mΩ
Efficiency – round trip	>99.5 %
Self Discharge per Month	<3 %
Max parallel connectors	16 Pcs
Series connections	Not Allowed
Cycle life (1C, 25°C@100% DOD)	>4000 Cycles
Discharge Temperature	(- 20 to 65) °C
Charge Temperature	( 0 to 45) °C
Storage Temperature	(- 10 to 30) °C
Bluetooth(App)	Optional
LCD Screen	Optional
Heating function	Optional

Voltage Window	42.0-54.0 V
Recommend Charge Voltage	52.5 ±0.20V
Max Charge Voltage	54.0 ±0.20V
Recommend Charge current	40 A
Max continuous charge current	100 A
Recommend Discharge voltage	42.0 ±0.20V
Max Discharging Voltage	40.5 ±0.20V
Max Continuous Discharge current	100 A
Peak Discharge Current	120 A±3S

#### BMS CHARACTERISTICS

Primary Charging Protection	Current :102A	Delay Time: 1000ms
Second Charging Protection	Current :112A	Delay Time: 500ms
Primary Discharging Protection	Current :102A	Delay Time: 5s ±2s
Second Discharging Protection	Current :122A	Delay Time: 5s ±2s
Over charge Voltage protection	Voltage :54.0-54.8V	Delay Time: 500ms
Over Discharge Voltage protection	Voltage :42.0V	Delay Time: 500ms
Temperature Protection	PCB temperature≥95 °C	
	Recover≤85 °C	
Communication Port	Major RS485 ,optional for CAN / Dryport , customized acceptable	



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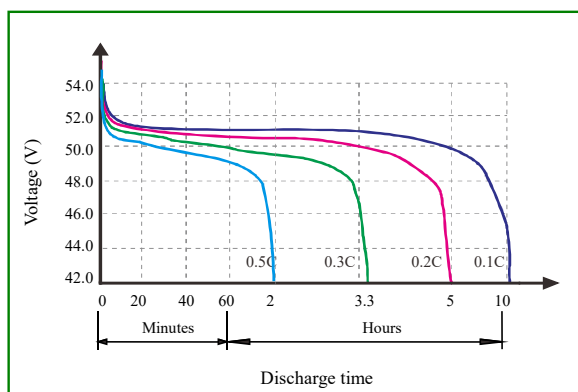
### Constant Current Discharge Data (Amperes @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (42.0V)	---	100A	66.6A	50A	40A	20A	10A

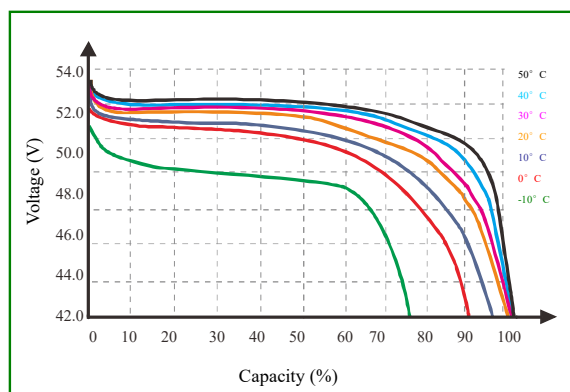
### Constant Power Discharge Data (Watts @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (42.0V)	---	4800W	3200W	2400W	1920W	960W	480W

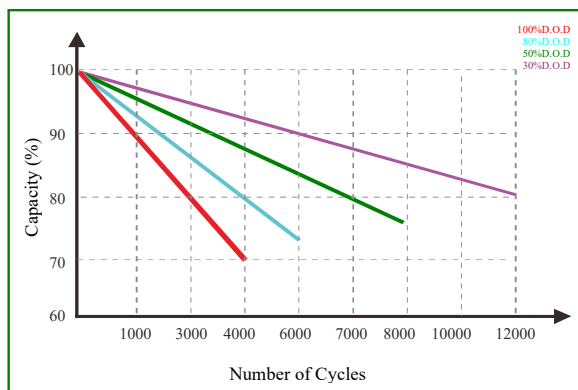
Discharge characteristics (25°C)



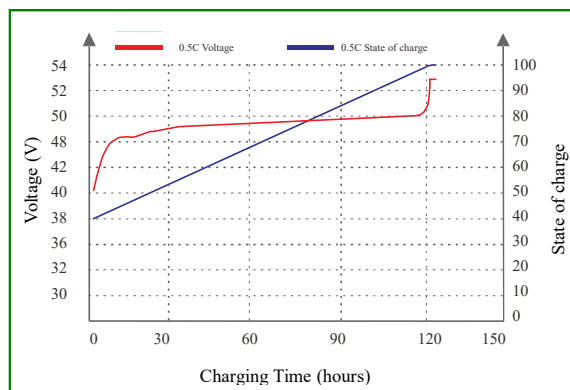
Different Temperature Discharge Curve (0.5C)



Different DOD Discharge cycle life Curve 0.2C 25°C



State of Charge Curve (0.5C, 25°C)



Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.

Note 2: When make parallel connection, please full discharge batteries, then recharge after parallel connected; when series connect, please keep batteries with same remain capacity/

Note 3: Parallel connection is only for longer backup time, not for larger output power.