Neata®
Super energy

Lithium Battery Series

LFP48240(48V240AH)



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, and Robotics; Marine, RV,and no-idle solutions; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems.

Applications



BATTERY SPECIFICATIONS

Battery Type - Chemistry	LiFePO4		Internal Resistance - Milliohms	< 80	mΩ
Nominal Voltage	48	V	Efficiency - round trip	> 99.5	%
Amp Hour Capacity	240	AH	Self Discharge per Month	< 3	%
Energy Density	11520	Wh	Max parallel connections	16	pcs
Dimensions(LxWxH)	442*600*264	mm	Seriesl connections	Not allowed	
Weight	95	KGS	Case IP Rating	IP35	
Terminal Type	M6		DesignLife	15	Years
Terminal Torque	8.5	NM	Cycle Life (1C, 25℃@80%DOD)	>4000	cycles
Case Material	ABS		Cycle Life (0.2C, 25℃@80%DOD)	>6000	cycles
BMS build-in	Yes				
			Discharge Temperature	(-23 to 65)	℃
Recommend Charge Voltage	52.5	±0.20V	Charge Temperature	(-3 to 65)	℃
Max Charge Voltage	54	±0.20V	Storage Temperature	(-20 to 45C)	℃
Recommend Charge current	100	A			
Max Charge Current	100	A	Bluetooth(APP)	Optional	
Charge Current (0 to -10℃)	<0.1	C	LCD Screen	Optional	
Charge Currrent (-20 to -10℃)	<0.05	C	Heating functions -20°C	Optional	By Charger
Recommend Discharging voltage	43.2	±0.20V	Batteryself heating function	Optional	BY Cell
Max Discharging Voltage	42	±0.20V			
Max Discharge Current	100	A	Shipping Classification	UN3480, CLASS 9	
Pulse Discharge Current	160	A±3S	Other Certifications	CB /CE	

Packing List

No	Item	Specification	Number
1	LiFePO4 Battery PACK	LFP48240 48V240Ah battery PACK	1 PCS
2	Power cable	1m Red +1m Black	2 PCS
3	communication cable	1M Internet cable	1 PCS
4	LCD Screen (Optional)	Integrated on the battery	1 PCS

Http//:www.neata-batt.com
Shenzhen Neata Power Tech co.,Ltd
FOR MORE INFORMATION, PLEASE MAIL: SALES@NEATA-BATT.COM

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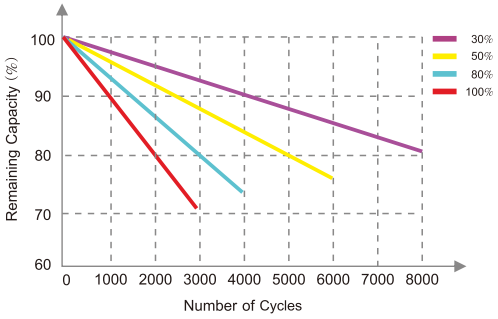
BMS SPECIFICATIONS

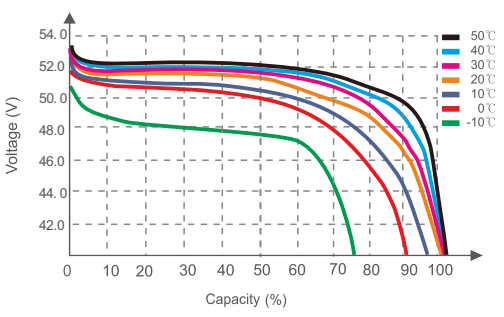
BMS Version :LL

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 Warning	>56	±0.20V					
Over Charging Pack protection	>57	±0.20V	Delay		3	±0.5S	
Over Charging Current Warning	>102<112	±2.0A	Delay		20	±0.6S	Trun to 10A charging
Over Charging Current protection 1	>112	±2.5A	Delay		3	±1.0S	
Over Charging Current protection 2	0~150	±2.5A	Delay		0.5	±1.0S	
OverCharging Temp Protection 1	<-0 or>65	±3℃	Release	>3 or < 60		±3℃	Delay:2±0.5S
Over Discharging Cell protection	<2.5	±0.05V	Delay		2	±0.5S	
Over Discharging Pack protection	<42	±0.20V	Delay		2	±0.5S	
Over Discharging current Warning	>102	±2.5A					
Over Discharging current protection 1	>102 < 122	±2.5A	Delay		30	±1.0S	
Over Discharging current protection 2	>122	±2.5A	Delay		3	±1.0S	
Over Discharging Temp Protection 1	<-25 or>75	±2℃	Release	>-15 or < 65		±2℃	
PCB Temp protection	>95	±3℃	Release	< 80		±3℃	Delay:2±0.5S
Cell Balance Start	3.4	±0.05V	Cell voltage difference <		20mV		Passive balance
Balance Current	150	±10mA					
Short circuit	500A		Delay		0.1	±0.2ms	
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		
Communication ports	Major RS485,opitional for CAN/Bluetooth/Dryport/SNMP				Can be customized		
Temperature accuracy	±2	℃	Measuring range -40~100℃				
Voltage accuracy	±15	mv	For cells and module				
Current accuracy	FSC	±5%	Measuring range -200~+200A				
SOC	±5%		Integral calculation				

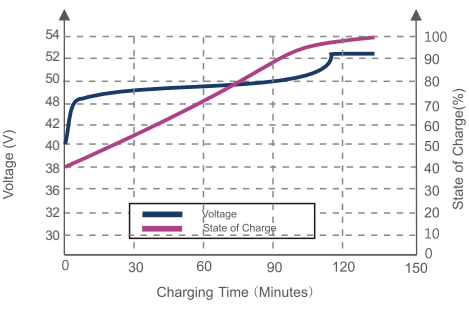
Different DOD Discharge Cycle Life Curve 1C 25C



Different Temperature Discharge Curve(0.2C)



State of Charge Curve(0.5C, 25℃)



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