



## Why come to us for a solution?

- Quality products
- Wide range of products
- Nationwide backup
- Locally produced UPS's
- Competitively priced
- Unique design
- Good value for money

# LITHIUM BATTERY

LifePo4 51.2V 100Ah

LiFePo4 batteries are a top-performing option with a longer lifespan and improved efficiency for both charge and discharge rate. They are also lightweight and require no maintenance. These batteries are extremely safe and is a great choice for environmentally sensitive areas due to their high-power cell technology and enhanced cycle life capabilities.



## APPLICATION

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Home Storage, Telecom, Back Up Power, Off Grid, Emergency Lighting, TV, Wi-Fi Modem

## FEATURES

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- Lithium iron phosphate - LiFePO4
- Life cycle >4000 @ 80% DOD
- 10 year life design
- Intelligent management system
- Built-in intelligent balance module
- Built-in comprehensive monitoring system,
- Compact design
- Intelligent thermal management
- LCD Screen
- Rack mount



# LITHIUM BATTERY

LifePo4 51.2V 100Ah

MODEL	LFP18AH 12.8V
<b>BATTERY SPECIFICATIONS</b>	
Battery Type - Chemistry	LifePO4
Nominal Voltage	51.2V
Amp Hour Capacity	100Ah
Energy Density	5120WH
Dimensions (mm)	442X480X15
Weight (Kg)	5.47
<b>MECHANICAL SPECIFICATIONS</b>	
Terminal Type	M6
Terminal Torque	8.5NM
Case Material	ABS
BMS build-in	Yes
Recommended Charge Voltage	56.5±0.20V
Max Charge Voltage	57±0.20V
Recommended Charge Current	25A
Maximum Charge Current	100Ah
Charge Current (0 to 10°C)	<0.1C
Charge Current (-20 to 10°C)	<0.05C
Recommended Discharge Voltage	45±0.20V
Max Discharge Voltage	43.5±0.20V
Max Discharge Current	100A 160A/
Pulse Discharge Current	±3S <80mΩ
Internal Resistance	>99.5%
Efficiency - round trip	<3%
Self Discharge per month	16PCS
Max4 series connections	Not
Parallel Connections	Allowed
Case IP rating	IP35
Design Life	20 Years
Cycle Life (1C,25°C@80%DOB)	>4000
Cycle Life (0.2C,25°C@80%DOB)	>6000
<b>TEMPERATURE SPECIFICATIONS</b>	
Discharge Temperature	-23 - 65°C
Charge Temperature	-3 - 65°C
Storage Temperature	-20 - 45°C
<b>OTHER</b>	
Shipping Classification	UN3480, CLASS
Other Certifications	9 CB/CE
Communication ports	RS485, CAN
<b>BMS SPECIFICATIONS</b>	
Over Charging Cell Protection	>3.80±0.05V
Over Charging Pack Protection	>60±0.20V
Over Charging Current 1	>102<112±2.5
Over Discharging Cell Protection	A <2.8±0.05V
Over Discharging Pack Protection	<43.2±0.20V
Over Discharging Current 1	<102<122±2.5
Cell Balancing Start	A 3.4±0.05V
Cell Balance Current	90±20mA
Short Circuit	560A

