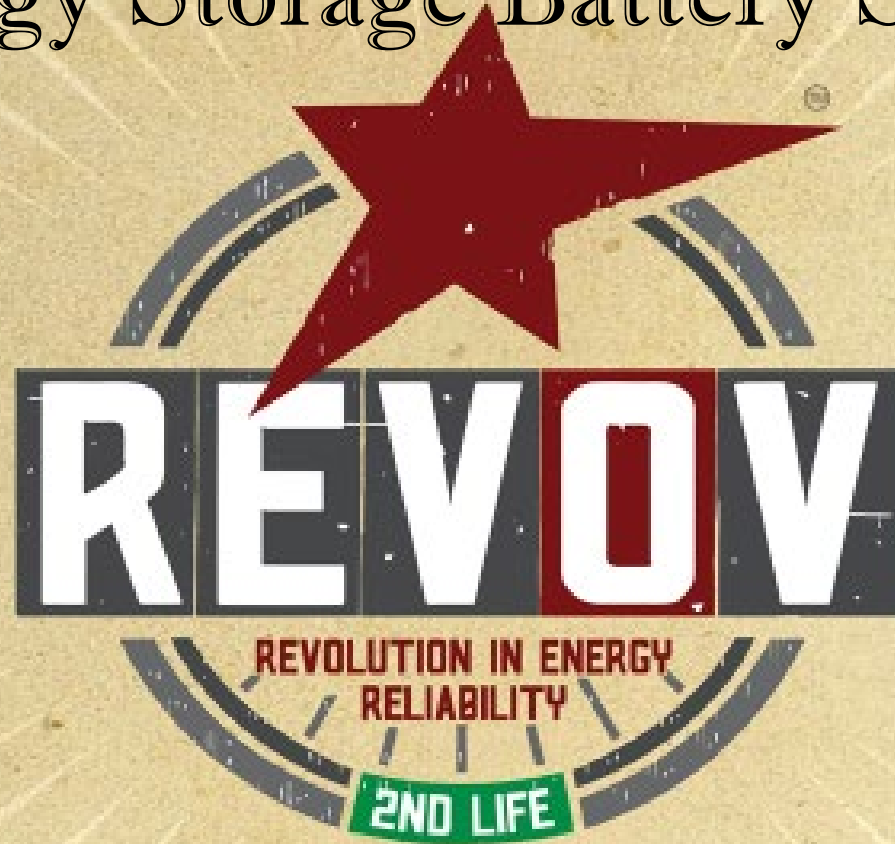


12V 8Ah LiFePO4 Energy Storage Battery System



Bates Interior Solutions

Cell: Jonathan Bates : +2782-604-5242 Eric Nghonyama: +2782-604-5645 Tel: 010-003-0219

Number 4 14th Street, Parkhurst, Johannesburg, 2193

www.batesinteriorsolutions.co.za

CONTENTS

Product Introduction



Specifications & Parameters



Precautions



Product Introduction

LONG LIFE CYCLE

The cycle life of our 12V 8Ah Battery is 500+.

The average battery replacement cycle when using Lithium is 6-10 years on average.

LOW COST

Replacing of Lead Acid batteries with Lithium Iron will save replacement costs as Lithium has a longer cycle life than its counter part.

EXCELLENT SAFETY

The 12V 8Ah Lithium Battery and BMS has passed the inspection and certification of related testing institutions, and are safe and reliable



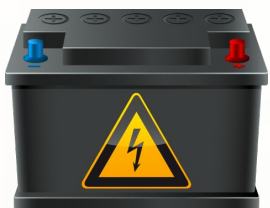
LIGHT & EFFECIENT

The Lithium Battery uses the cell energy density of 110WH/KG, which is three times of that of the lead-acid battery, with the same electric quantity but weight being only 33% of the lead-acid battery

HIGH STABILITY

This Battery has excellent charge and discharge performance, therefore it is no longer necessary to worry about the issue of fast charge and heavy load





Specifications and Parameters



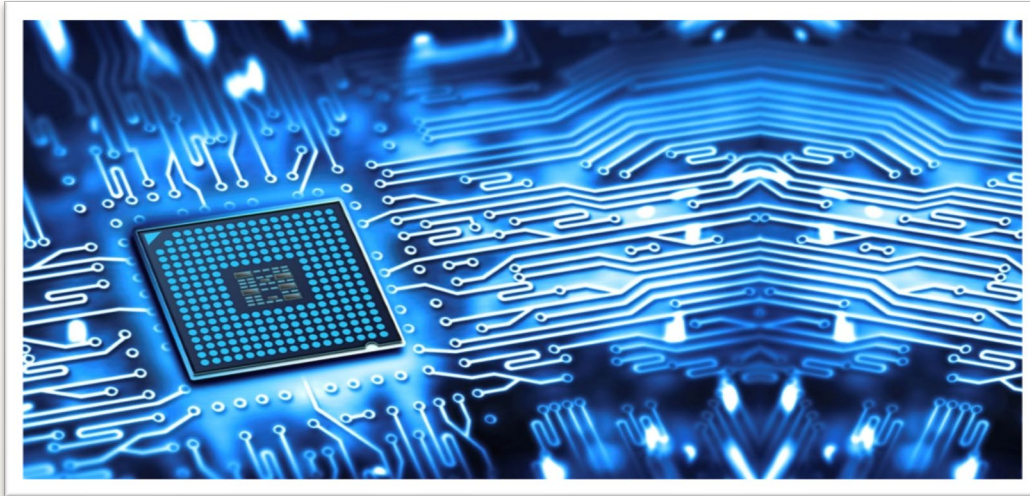
Description	Lead-acid Battery	LFP Battery
Volume	Large	Small
Cycle Life	300~500 (2-3 years)	>2000 (6-10 years)
Energy Density	40~60 Wh/kg	~110 Wh/kg
Discharge Characteristic	Ordinary	Excellent
Security Feature	Ordinary	Excellent
Use-cost	High	Low



Description	Lead-acid Battery	LFP Battery
Basic Parameters	Model	BEE 1208
	Combination	2P4S
	Rated Voltage	12.8V
	Rated Capacity	8Ah
	Rated Energy	102.4Wh
	Voltage Range	10V-14.6V
	Cycle Times	2000 cycle
Input and Output Parameters	DC Output	12.8V 3A (5A max)
	DC Connector	Others
Usage Environment	Storage time	6 months
	Operation Humidity	10%RH~90%RH
	Protection Grade	IP43
	Charge Operating Temperature	0~45°C
	Discharge Operating Temperature	-20~55°C
Others	Dimensions	145mm*70mm*70mm
	Weight	~1.5kg



BMS Parameters



BMS Parameters

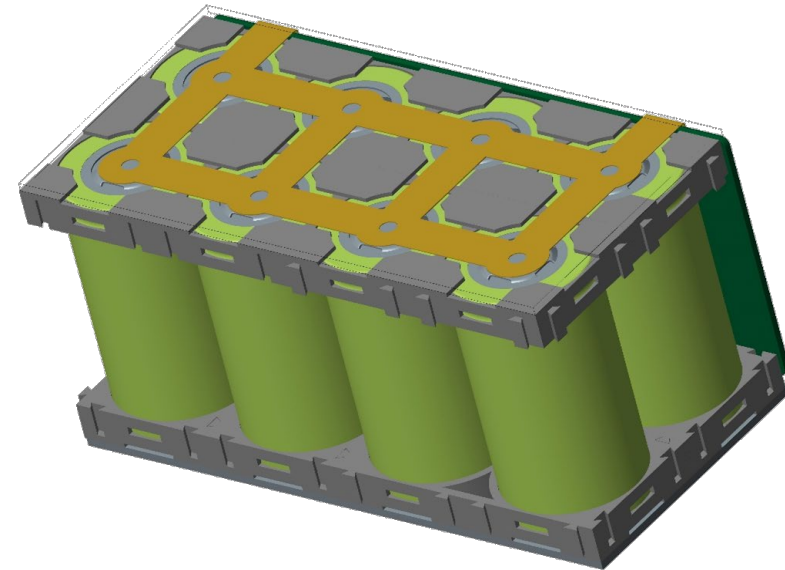
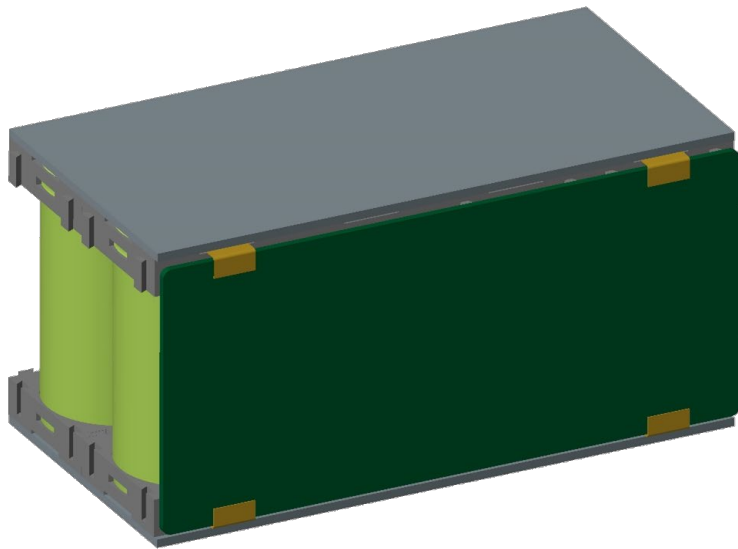
Protection Feature	LiFePO4
Process Protection Voltage	3.65V
Overcharge Protection Delay	1000ms
Over-charged recovery Voltage	3.6V
Over-discharge protection Voltage	2.0V
Over time protection delay	150ms
Over-discharge recovery voltage	2.5V
Working Current	4A
Discharge Overcurrent Protection Current	20A
Discharge Over-current protection delay	20ms
Overcurrent protection recovery mode	Disconnect the Load
Short circuit protection	Yes
Short circuit protection delay	450us
Short circuit protection recovery mode	Disconnect the Load
Balance Function	Yes
Balance Current	55mA

Specifications

Input voltage	AC 90V-264V/AC 100-240V	Input Current	0.35A MAX
Output voltage	14.6V±5%	Output current	1.5A
Output MVP-P	≤120mv	Conversion efficiency	≥80%
Working Temp	20°C-40°C	Working humidity	5%-90%RH
Storage Temp	20°C-85°C	Storage humidity	5%-95%RH
ESD	4KV/8KV/16KV	Lightning strike/surge	1KV/2KV/2.5KV/4KV/8KV
Protection function	Overvoltage protection, ■ overcurrent protection, ■ over temperature protection, ■ short circuit protection, ■ over power protection		
Energy efficiency rate	V 5/ VI 6		
Certificate standard	IEC60950/61558/60335/60065/61347/GB19510		
Passed certifications	UL、FCC、CE、GS、SAA、RCM、KC、CCC、PSE、BS1363		
Environmental protection standard	ROHS、REACH、PAHs		
DC specification	2.5*0.7/3.5*1.35/4.0*1.7/5.5*2.1/5.5*2.5/mini5pin /micro5pin		
Warranty	1 Year Warranty		



12V 8Ah LiFeP04 Battery



Battery Charger



Precautions

- ☐ Please select the special charger for lithium ion battery when charging
- ☐ It is strictly forbidden to plug the battery directly into the power socket
- ☐ It is strictly forbidden to use the battery to reverse the anode and cathode
- ☐ It is strictly prohibited to immerse the battery in water. When not in use, it should be placed in a cool and dry environment
- ☐ It is prohibited to use and retain the battery near the heat source (such as the fire heater, etc.)
- ☐ Do not put the battery in the fire.
- ☐ It is prohibited to transport or store batteries along with metal such as hairpin necklaces
- ☐ It is strictly forbidden to connect the battery with metal directly
- ☐ Tapping or throwing, trampling battery is strictly prohibited
- ☐ Direct welding of batteries and puncturing them with nails or other sharp objects are strictly prohibited
- ☐ Do not use or place the battery at high temperatures (in hot sunlight or in hot vehicles), or it may cause the battery to overheat and reduce its service life
- ☐ Do not keep it in an environment of more than 60 °C places for a long time



Precautions

- ☐ Do not use in places with strong static electricity and strong magnetic field.
- ☐ If the battery leaks and the electrolyte enters the eye, please do not rub, rinse the eye with water, and go to the doctor immediately.
- ☐ Remove the battery from the device or charger immediately if it smells, heats, discolors, deforms or becomes abnormal during use, storage, or charging
- ☐ If the electrode is dirty, wipe it with dry cloth before use, or it may cause contact failure
- ☐ If the voltage of the battery is lower than the over discharge protection voltage, please pre-charge the battery with a current below 0.03C. Do not use the battery until the battery capacity is restored
- ☐ The disused batteries should be insulated with paper to cover the electrodes to prevent short circuits between positive and negative electrodes



THANK YOU

