

Affordable quality lithium batteries Supplied by LiFeBatteries

Lithium Iron Phosphate (LiFePO4) Battery

This specification describes the property indexes and technical requirements of the Archibald 24V 100Ah rechargeable Lifepo4 lithium-ion battery manufactured by BEIJING XD BATTERY TECHNOLOGY CO., LTD.



Features

- Using the technology of lithium iron phosphate prismatic cells, superior safety, 3500 cycles or more, @ 100% DOD
- JBD BMS Bluetooth enabled battery management system
- Low temperature charge protection inbuilt
- High current charge and discharge capability (100A)
- Maintenance free
- Internal cell balancing
- Lighter weight: About 40% ~50% of the weight of a comparable lead acid battery
- Can be charged using most standard lead-acid chargers, MPPT solar chargers and alternator charging

*Note Smart alternators will need a DC-to-DC charging system.

Applications

- Motorhome
- Suitable for all marine applications
- Off Grid standalone domestic systems
- All types of battery powered personal transport

Parameters	
Pack Method	16S1P
Nominal Capacity	100Ah
Nominal Voltage	25.6V
Energy	2.4KWh
Charge Voltage	29V
Discharge Cut-off Voltage	20V
Float Voltage	27.2V
Charge Method	CC/CV (Constant Current or Constant Voltage)
Standard Charge Current	60A
Max. Charge Current	100A
Max. Continuous Discharge Current	120A
Cycle Life	3500 Times
Internal Impedance	≤80mΩ
Dimension	490x170x240mm (±2mm)
Weight	20.6 Kg ±0.2Kg
Charge Temperature	0°C to 60°C
Discharge Temperature	-20°C to 60°C

Charging Methods

The Archibald LifePO4 units are equipped with the latest JBD Bluetooth BMS.

The batteries can be charged from most Charging sources as long as they fall into the parameters of the chosen unit, with the exception of a PWM solar controller. *PWM chargers are not suitable for BMS equipped LiFePO4 units*

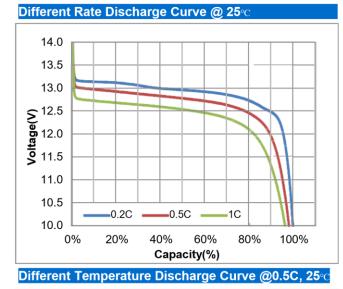
If using a standard 240v – 24v Car battery charger if present, use the sealed lead acid / AGM setting if a specific lithium setting is not available.

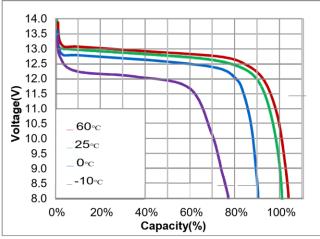
The same applies to solar chargers, if this setting is not present the equalisation charge should be set in the off position.

The Archibald unit can be used in a split charge system where it is charged from the alternator. Smart alternator systems should be equipped with a DC-to-DC charger, please check your vehicle specs

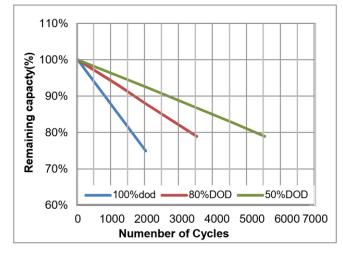
BOAT OWNERS BEWARE - Dedicated domestic bank alternator to Lithium battery charging is not recommended, due to sudden disconnect which can damage alternator.

Charge and discharge curves (x2 for 24volt)





Different DOD Discharge Cycle Life Curve@0.5C, 25

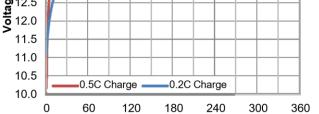


International contact

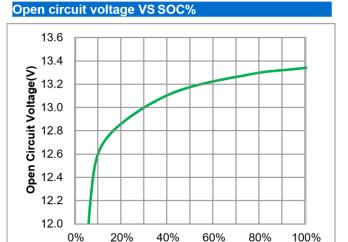
Tel: +86-10-88482713

Address: Building 12, Qihang International business park, Daxing district, Beijing, China

Charge Characteristics @0.2C&0.5C, 25℃ 15.0 0.55 14.5 0.50 14.0 0.44 Charge Voltage(V) 13.5 13.0 12.5 12.0 12.0 11.5 11.5 11.0 0.39 Current(C_A) 0.33 0.28 0.22 narge 0.17 ່ວ 11.0 0.11 0.2C Voltage 🛛 🗕 0.5C Voltage 10.5 0.06 0.2C Current 0.5C Current _ 10.0 0.00 20% 40% 60% 80% 100% 0% Capacity(%) Charge Characteristics @0.2C&0.5C, 25 15.0 14.5 14.0 13.5 13.0 (13.0 (12.5 (12.0 (



Charge Time(min)



SOC(%)

EU Contact

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