



LiFePO4 Battery Specification



ENGINEERED
IN THE USA

LBS-72100

Voltage: 76.8V | Capacity: 100 Ah | Energy: 7680 Wh



72V100AH Battery Specification	
Nominal Voltage	76.8V
Charge Voltage	85.2V±0.2V
Cut-off Voltage	60V
Nominal Capacity	100Ah (at 0.5C rate discharge after standard charge)
Minimum Capacity	97Ah (at 0.5C rate discharge after standard charge)
Pack Weight	Approximately 70kg/154.3lb
Delivery Voltage	79.2 ~ 81.6V
Battery Dimension	533 (L) x 432 (W) x 254 (H) mm 21 (L) x 17 (W) x 10 (H) in
Case Color	Pearl White
Case Material	Metal Plate
Cell Type-Chemistry	Prismatic Cell-LiFePO4
Standard Charge Current&Voltage @ Temp: 0~45°C	Step 1: 0.5CC charge to 85.2V; Step 2: CV (constant voltage 85.2V) charge till charge current decline to 0.05C.
Charging Time	2.5 Hours (Ref.)
Max. Charge Current	100A
Max. Discharge Current	150A (Peak 200A for 10s)
Operating temperature	Charging: 0°C to 45°C Discharging: -20°C to 55°C
Storage Temperature @ Humidity Range 45% ~ 90% RH	1 month: -20°C to 45°C 3 months: -10°C to 45°C 6 months: 0°C to 25°C The battery should cycle once in every 3 months. Recommended storage temperature is 25±5°C of SOC
Cycle Life	≥ 3500 cycles, more than 80% at 0.5C charge and 0.5C discharge at 80% DOD 25°C
Pack Initial Internal Impedance	≤ 100mΩ (50% SOC, measure the AC impedance at 1KHz)

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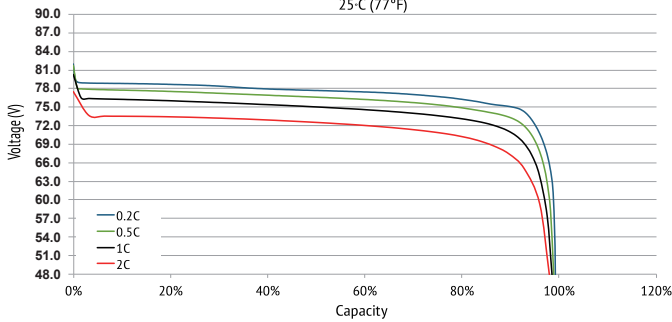
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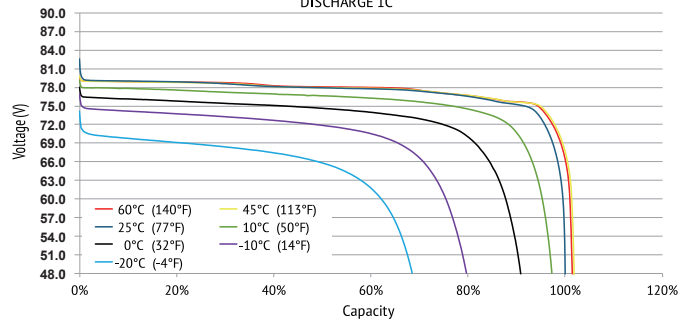
Features

- High energy density
- Automatic protection with internal battery management system
- Low self-discharge rate
- Long cycle life
- Excellent performance in all operating temperatures

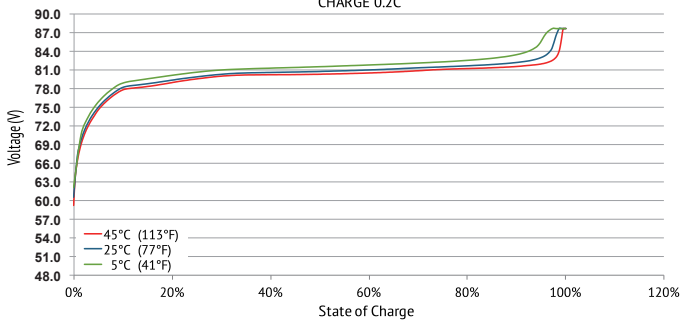
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS RATES
25°C (77°F)



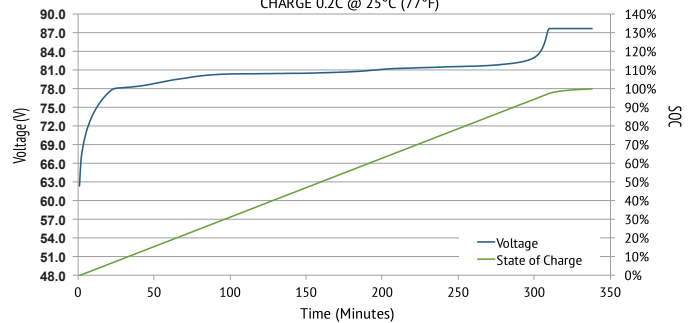
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
DISCHARGE 1C



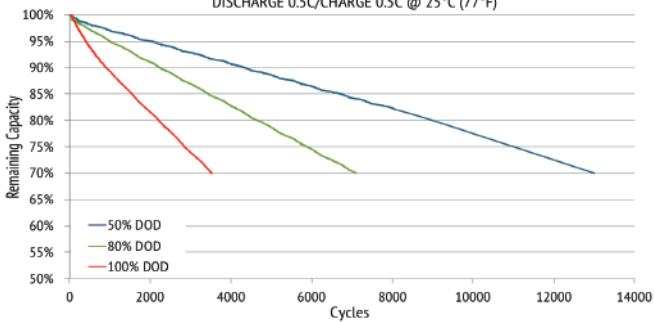
CHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
CHARGE 0.2C



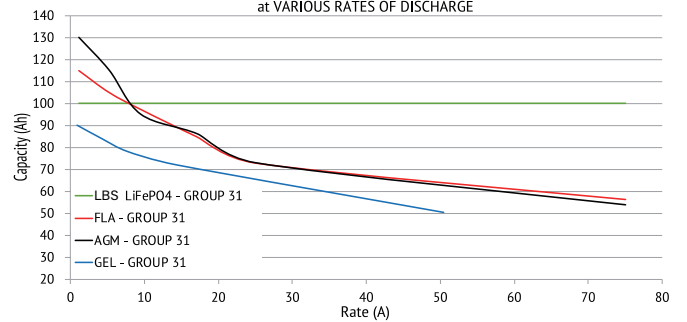
CHARGE VOLTAGE and STATE OF CHARGE (SOC)
CHARGE 0.2C @ 25°C (77°F)



CYCLE LIFE vs. DEPTH OF DISCHARGE (DOD)
DISCHARGE 0.5C/CHARGE 0.5C @ 25°C (77°F)



CAPACITY of LBS LiFePO4 vs. LEAD ACID
at VARIOUS RATES OF DISCHARGE



* The curve is only the reference of the comparison of discharge performance of Group31 batteries with different materials, might not for the specific model in the specs.

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Caution

In order to prevent the battery possibly occurs leaks, over heat, swollen, please note the preventive measure.

Handling Precautions and Guideline

Strictly prohibits inverting the cathode use battery.

Strictly prohibits directly connect battery to power source plug

Please do not throw the battery to water or put into heater

Strictly prohibits plunging the battery in sea water or water, when battery do not use, please store battery in the cool-dry environment.

The prohibition in strong static electricity and strong magnetic field place use, otherwise is easy to destroy the battery BMS.

The prohibition puts the battery nearby the hot high temperature source, like the fire, the heater and so on use and leaves alone

The prohibition directly connects the battery cathode with the metal to short-circuit

The prohibition rap or throws, steps on the battery and so on

Forbids directly to weld the battery and pierces the battery with the nail or other sharp weapons

If the battery sends out the unusual smell, gives off heat, the distortion or appears any exceptionally, immediately moves the battery from the installment or the battery charger to and stops using.

If the battery occurs leaks, the electrolyte enters eye, please do not have to rub scratches, the application clear water flushing eye, and delivers the medical treatment otherwise to be able immediately to injure the eye

When battery long-term storage, or assembly in the host, suggest customer should take every 3 months carry-on one-time charge and discharge and recharge it to half-charge state

Abandon the battery to wrap up the electrode using the insulating paper, prevented the battery short-circuits.

Abandon battery processing to be supposed to follow the local government the laws and regulations.

Do not decompose the battery.

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