



LiFePO4 Battery Specification



ENGINEERED
IN THE USA

LBS-48120

Voltage: 51.2V | Capacity: 120 Ah | Energy: 6144 Wh



48V120AH Battery Specification

Nominal Voltage	51.2V
Charge Voltage	57.6V±0.2V
Cut-off Voltage	40V
Nominal Capacity	125Ah (at 0.5C rate discharge after standard charge)
Minimum Capacity	120Ah (at 0.5C rate discharge after standard charge)
Pack Weight	Approximately 55kg/121.3lb
Delivery Voltage	53.6 ~ 54.6V
Battery Dimension	430 (L) x 350 (W) x 260 (H) mm 16.92 (L) x 13.77 (W) x 10.23 (H) in
Case Color	Black
Case Material	Metal Plate
Cell Type-Chemistry	Prismatic Cell-LiFePO4
Standard Charge Current&Voltage @ Temp: 0~45°C	Step 1: 0.5CC charge to 57.6V; Step 2: CV (constant voltage 57.6V) charge till charge current decline to 0.05C.
Charging Time	2.5 Hours (Ref.)
Max. Charge Current	120A
Max. Discharge Current	120A (Peak 200A for 5 sec)
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	≥ 3000 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)

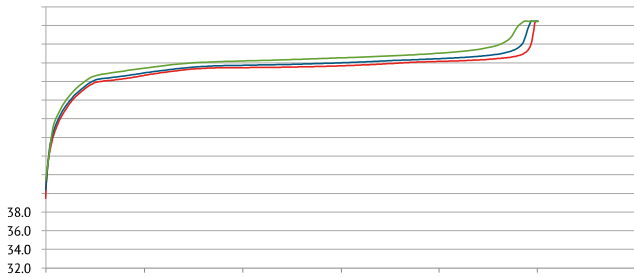
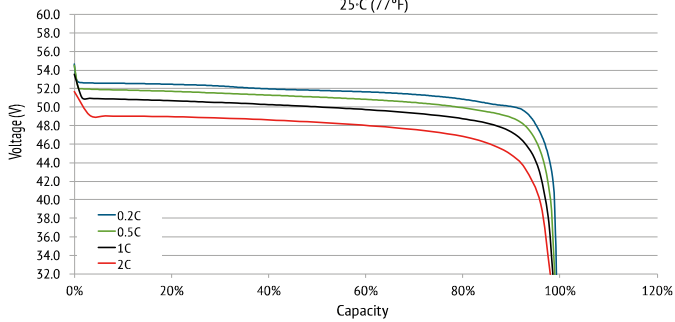
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DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS RATES
25°C (77°F)



* 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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