

# BA50-09

## 12V 50Ah LiFePO4 Lithium Battery



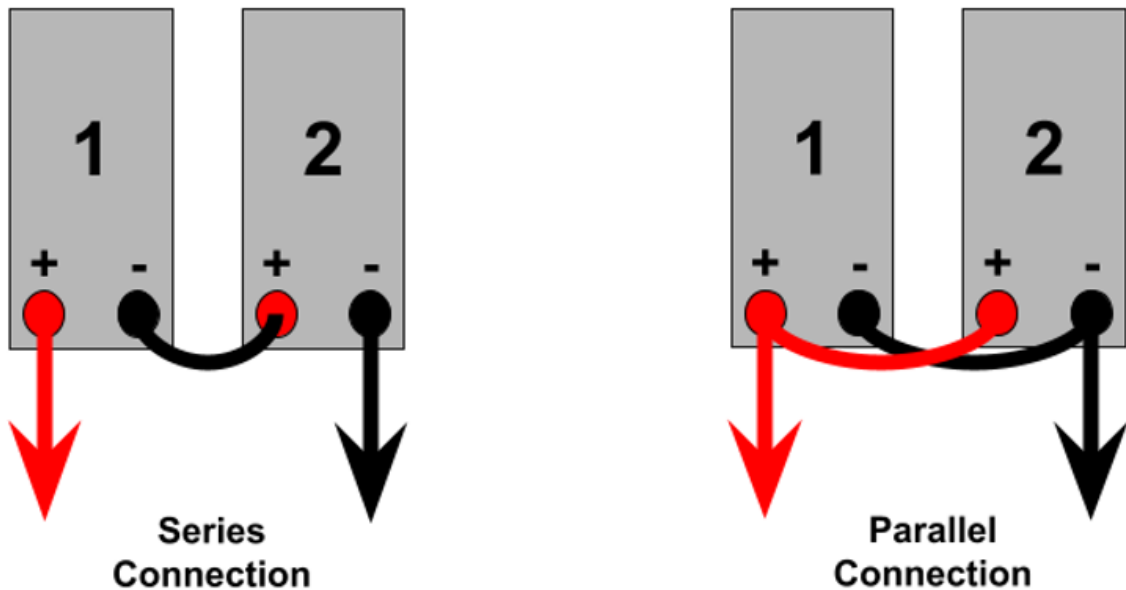
### Key Features:

- New Lithium Iron Phosphate cells.
- High Cycle Life: >3000 @ 80%DOD (Depth of Discharge).
- Suitable SLA Replacement – RV & Caravan, Backup Power, Solar Applications, UPS, etc.
- Built-in BMS (Battery Management System) for Battery Protection.
- Light Weight – 30% of SLA battery.

Specifications	
Nominal Voltage	12V (12.8V)
Capacity	50Ah
Self-Discharge	<3%/month
Max Discharge Current	50A
Recommended Discharge Current	<30A
Max Charge Current	50A
Recommended Charge Current	<25A
BMS Cut-off Low Voltage	9.2V
BMS Charge Cut-off High Voltage	14.6V
Dimensions (L*W*H)	260*168*211mm
Weight	6kg
Terminal Type	Screw Stud (M8)
Enclosure Protection	IP65
Discharge Temperature	-20°C to 60°C
Charge Temperature	0°C to 45°C

## Series & Parallel Connection:

*Connection Example:*



A maximum number of batteries connected:

- In Series: 4
- In Parallel: 8

Note:

- To increase voltage, the series connection method is used.  
For example:  $12V + 12V = 24V$ . When connected in series the capacity remains the same.
- To increase capacity, a parallel connection method is used.  
For example:  $50Ah + 50Ah = 100Ah$ . When connected in parallel the voltage remains the same.
- Series & Parallel combinations are **NOT Recommended**.

## Cautions:

- ⚠ Do not submerge the battery in water.
- ⚠ Do not expose the battery to an open flame or extreme temperatures.
- ⚠ Do not crush or disassemble.
- ⚠ Avoid short circuits.
- ⚠ Store at 50% capacity, recharge every 3 months if not in use.

