



## INSTRUCTIONS FOR CONNECTING BATTERIES IN PARALELL

Please Note: It is emphasized that the voltage must be the same between the battery groups before they can be connected in parallel. Before using the battery pack please follow the below recommendations for proper parallel interconnection.

### 1) Battery Appearance / Visual Check

- a) Carefully open the protective carton/wooden box when batteries received.
- b) Perform a visual check of the batteries for any scratches or impact during shipping.

If any damage appears please document it with dated photos and contact us immediately (email). If everything looks satisfactory please proceed to step #2.

### 2) Identify the Positive and Negative Cables and/or Terminals

Be sure to correctly identify the positive and negative cable (or terminal) and always be sure to correctly connect the battery with Positive Pole and Negative Pole (usually Red + Black -). Failure to connect the battery correctly will likely cause a short circuit.

### 3) Connection

- a) Be sure to keep the battery packs charged within 1.0VDC voltage difference when you prepare to connect them in parallel (or series).
- b) The smaller the voltage difference (0.1V-1.0V), the better for connection.

### 4) Battery Use

- a) Try to never discharge the battery pack to 0%, this will ensure a longer battery life.
- b) Always try to charge the battery to 80% (100% would also be fine) and recharge the battery while they are discharged/used down to no less than 20% power.
- c) Recharge the Battery Packs every 3 months if they are shelved/not used for long time.

If you have any questions on the above instructions please contact us at [sales@pacificsunsystems.com](mailto:sales@pacificsunsystems.com)

**Thank You For Your Business, and we wish you many years of reliable use with your new LIFEPO4 Lithium Battery!**