



### Lithiumax Instruction Manual

Thank you for purchasing a Lithiumax LiFePo4 replacement battery for your car, boat, motorcycle or powersport equipment. You have purchased the highest quality item made using the very latest in lithium materials technology. If maintained correctly, your Lithiumax battery should give you many years of high performance service. All Lithiumax batteries ship charged and ready to use.

### Setup:

Your Lithiumax battery ships with 2 x stainless steel 5mm bolt connection terminals +ve and -ve. This is 2 x 6mm threaded bolts in the case of the 400CCA Blue Series Battery. **Note:** Ensure you are using the correct battery for the application for warranty purposes.

### Application guidelines:

Lithiumax BOREAS BMS | BIG-Size Battery | 900CA  
Lithiumax MEDOS BMS | MID-Size Battery | 700CA  
Lithiumax SILOS BMS | SMALL-Size Battery | 500CA

To operate simply press the button on the LCD display, this will show battery % charge. Hold the button down to show battery voltage (V). The battery should read between 13.2V and 13.4V (When 100% charged). Anything over 13.2V can be considered a usable full charge despite % charge figures showing below 100%, but above 80%.

### Fitting:

Use the supplied screws to secure your terminal cables to the Lithiumax battery, ensuring there is no pressure on the battery terminals from the cables that may transfer vibration to the battery and potentially loosen the terminals. Alternatively you can use OEM mounting posts, including with your battery package. **Note:** Ensure that you are not applying too much pressure when mounting your Lithiumax battery so that the battery casing is compressed or deformed. Deformed or compressed casing will void the warranty and may lead to thermal runaway. Please note: There are only certain condition in which these batteries can be introduced or connected in parallel with another battery including deep cycle batteries. Both batteries must be at a similar charge state (over 12.8V for the Lithiumax battery) prior to connecting in parallel. If the Lithiumax battery is below 12.8V do not connect with another charged battery else this will void the warranty. Ensure the Lithiumax battery is charged over 12.8V prior to parallel connection with another battery. Maximum 4 batteries.

### Maintenance:

It is recommended that you use a dedicated Lithium battery charger or Lithiumax Tender Maintenance Charger for battery maintenance. These are available through [www.lithiumax.eu](http://www.lithiumax.eu). Your regular vehicle or boat alternator or dedicated quality battery-charger may be adequate for this purpose. The Lithiumax Maintenance Tender charger is connected via the +ve and -ve terminals using the supplied connection harness eyelets or alligator clips. **Note:** Ensure that you do not use the lead-acid conditioning or de-sulphication setting for your battery-charger on your Lithiumax battery, as this will void the warranty. Do not charge your Lithiumax battery over 14.8V or drain below 8V as this may void the warranty.

### Low-Voltage Cut-Out:

Please note that the BMS low-voltage cut-out is a soft-stop on discharge and the battery will need to be disconnected from the source of the drain when it initially stops. The battery then must be fully charged prior to use.

### Warning:

Do not jump start the battery using an external powersource with the terminals connected directly to your Lithiumax battery, as this may damage one or more of the internal cells and void your warranty. For jump starting purposes, disconnect the +ve terminal from the Lithiumax battery and jump directly to the +ve terminal cable. Once the engine has started, reconnect the +ve terminal cable to your Lithiumax battery in order to allow it to charge as normal.

**Note:** Be sure to pass these details on to your vehicle service agent. For further details please contact us [lithiumax.eu@gmail.com](mailto:lithiumax.eu@gmail.com) or by visiting [www.lithiumax.eu](http://www.lithiumax.eu)