



INSTRUCTIONS FOR USE

Introduction:

Thank you for purchasing an ElectriBank ESS Deep-Cycle battery for your car, boat, motorhome, 4WD, campervan, caravan, campsite, event, aircraft, home or office. You have purchased the highest quality item made using the very latest in LiFePO₄ lithium materials technology. If maintained correctly, your ElectriBank ESS battery should give you many years of high performance service. All ElectriBank ESS batteries ship charged and ready to use.

Setup & Operation:

Your ElectriBank ESS Deep-Cycle LCD battery ships with 2 x 8mm bolt connection terminals +ve and -ve. Install your ElectriBank ESS Battery in a dry location and ensure it is secured using your vehicle or boat's standard or compliant battery fixing device, this is particularly important for vehicles or boats encountering off-road driving conditions or high vibrations or yaw such as in ocean going boats. In these cases a suitable isolating material such as rubber or foam should be installed between the ElectriBank ESS battery and any hard surfaces that can transmit vibration or impacts. Do not compress the case when installing as this could damage the battery cells or BMS and void the warranty. Ensure terminals are connected securely with the correct orientation and cables used have a suitable gauge for high current applications (Min 4 AWG).

To check the battery charge or voltage press the power button on the LCD display, this will show battery charge % and volts (V) including bar graph as illustrated below. A press of the triangle symbol button will toggle between battery environmental temperature in degC and voltage. The battery should read between 13.2V and 13.6V when resting after being fully charged. Anything over 13.2V can be considered a usable full charge at rest, despite charge bars showing only 6 of 7 bars and percentage being around 90%. Be sure to press the voltage indicator button again to switch off the volt meter after reading to ensure minimal battery drain. Please note that depending on the charging equipment used, a full charge is only achieved with the built in voltage meter showing between 14.2-14.4V regardless of the no. of bars showing in the capacity display, this capacity bar display is only accurate once the battery has been resting for a minimum of 1 hour after charging and not during charging. Adjust your charger settings where applicable to ensure a FULL charge is achieved.

Connection Parallel or Series:

There are only certain condition in which these batteries can be introduced or connected in parallel or series with another battery including other deep-cycle batteries or engine starter batteries e.g. Lithiumax Starter Batteries. Both batteries must be 12.8V lithium LiFePO₄ units, do not mix battery chemistries. All units must be at a similar charge state (at or over 12.8V for the ElectriBank ESS battery) prior to connecting in parallel or series. If the ElectriBank ESS battery is below 12.8V do not connect with another charged battery else this may trigger the over-charge protection circuit within the Battery Management System (BMS). Once the overcharge state is removed, the battery BMS will reset automatically. Maximum 4 batteries in series for up to 48V and any no. in parallel. Parallel connection will add the additional battery capacity at the same voltage. Series connection will add the voltage at the same capacity.

Maintenance:

It is recommended that you use a dedicated Lithium battery charger or ElectriBank ESS Maintenance or Fast Charger for battery maintenance. These are available through www.electribank.com

Your regular vehicle or boat alternator or dedicated quality battery/trickle charger may be adequate for this purpose along with other 12-15VDC (more Volts if running multiple units in series) charging systems such as solar panels, wind generators or fuel generators.

Note: Ensure that you do not use a lead-acid conditioning or de-sulphation setting for your battery/trickle charger on your ElectriBank ESS battery, as this will void the warranty. Do not charge your ElectriBank ESS battery over 14.8V as this will trigger the overcharge protection within the BMS and cut charging to the cells until the overcharge condition is removed.

Low-Voltage Cut-Out: Please note that the BMS low-voltage cut-out is set at 10V and the battery will need to be charged over 10.8V for the battery BMS to restart battery operation. It is recommended that you set your system cut-out at 11V. A copy of ElectriBank ESS specifications for your ElectriBank model can be found at www.electribank.com/support

Warning: Do not jump start your engine using an external power source with the terminals connected directly to your ElectriBank ESS 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 ElectriBank ESS battery and jump directly to the +ve terminal cable. Once the engine has started, reconnect the +ve terminal cable to your ElectriBank ESS battery in order to allow it to charge as normal. It is advised that ElectriBank ESS batteries are connected via a battery isolator circuit to ensure safe battery decoupling when required for both engine starting and other battery connection and isolation purposes.

Note: Be sure to pass these details on to your vehicle, camper, boat or aircraft service agent.

For further details please contact us at admin@electribank.com or by visiting www.electribank.com

