

## User Instructions

Thank you for purchasing a **Lithiummax DEEPSTART100 or RESTART100 Dual-Purpose Deep-cycle and engine starter batteries**. Your Lithiummax battery should give you many years of high performance service. Lithiummax batteries ship ready to use.

**Fitting:** For OEM/Standard N70ZZ battery replacement, remove the existing battery and place your Lithiummax dual-purpose battery in the factory location. Ensure all cables and objects are clear so as to be able to utilise the OEM or factory battery clamping system. Once the battery is secured, connect to the battery +ve SAE terminal first then the -ve terminal. Ensure there is no pressure on the battery terminals from the cables, that may transfer vibration to the battery and potentially loosen the terminals. The DEEPSTART100 also has 2 x M8 terminal studs for auxiliary connection.

**Multiple battery systems:** There are only certain condition in which Lithiummax batteries can be introduced or connected in parallel with another battery including deep-cycle only batteries such as ElectriBank [www.electribank.com](http://www.electribank.com). Both batteries must be at a similar charge state (over 12.5V for the Lithiummax battery) prior to connecting in parallel. If the Lithiummax battery is below 12V do not connect with another charged battery else this may void the warranty. This includes Jump Starting from another battery or battery pack. Ensure the Lithiummax battery is charged over 12V prior to parallel connection with another battery. Maximum 4 Lithiummax batteries in parallel.

**Battery Registration:** With many late model vehicles manufactured after 2000, as is the case with all new batteries, your Lithiummax battery may need to be registered with the ECU or PCM to operate correctly with your vehicles charging system. Please consult your service agent and/or vehicle owners manual for details. Ensure battery is indicating at least 13V when registering the battery.

**Bluetooth Operation:** Download the Lithiummax App from either the App Store or Google Play by scanning the QR code on the top of your Lithiummax Bluetooth battery or by visiting: [bluetooth.lithiummax.co](http://bluetooth.lithiummax.co) **Note:** The Bluetooth module is constantly in operation and can drain the battery over extended periods of time, however this is more prevalent in our smaller capacity Bluetooth models such as the RESTART7 and RACE+GT. Be sure to monitor the battery via the Lithiummax App and recharge as necessary.

Once the App is downloaded ensure your smartphone location services are set to 'ON' for the App and the smartphone. Open the App & connect to your Lithiummax battery by pressing the Bluetooth button as in Fig.1 & choosing the device L-Max. Once connected your battery % charge will be displayed along with battery parameters as per Fig.2. Note: lower the L-max dB no. the closer the battery.



Fig.1

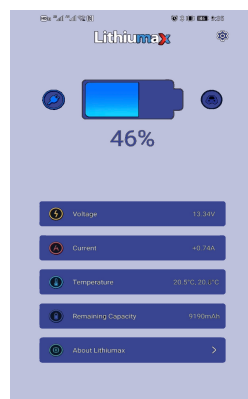


Fig.2

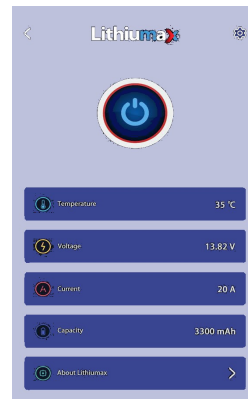


Fig.3

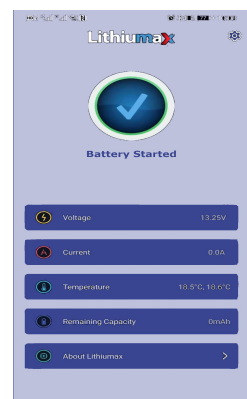


Fig.4

**RESTART Function RESTART100 ONLY:** The battery will hard-cut at a safe level to still enable engine starting at approximately 11.5V. To Restart the battery, connect to the battery via the App by following the Bluetooth Operation instructions above. The Restart button will be displayed as per Fig.3. Press the start button on the App, the battery will Restart as per Fig.4. You may then have adequate energy in the battery to start the engine, depending on the engine size and type. There is a protective hard-cut at 8V on all Lithiummax Bluetooth units. Only charging will restore the battery from the 8v cut.

**Note:** The Restart function can also be performed by pressing the button located on the top of the battery.

**Maintenance:** It is recommended that you use a dedicated Lithium battery charger or Lithiummax Fast Charger for battery maintenance. These are available through [www.lithiummax.com.au](http://www.lithiummax.com.au) Your regular vehicle or boat alternator or dedicated quality battery/trickle charger may be adequate for this purpose (see below).

**Note:** Ensure that you do not use a lead-acid conditioning/reconditioning or de-sulphation setting on your battery/trickle charger on Lithiummax batteries, as this will void the warranty. The AGM/Gel setting may be used in some cases if no dedicated lithium setting exists, however you will need to ensure the AGM setting of your charger does not have a re/conditioning or desulphation function when charging. For extended periods of storage it is advised that the battery is disconnected from the vehicle or a timer for the charger used. Usually 6 hours of charging per 48 hours is adequate to maintain your Lithiummax battery, depending on your equipment drain.

**Warning:** Do not jump start the engine using an external power source with the terminals connected directly to your Lithiummax 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 Lithiummax battery and jump directly to the +ve terminal cable. Once the engine has started, reconnect the +ve terminal cable to your Lithiummax battery in order to allow it to charge as normal.

**Note:** Please pass these details on to your vehicle, boat, machinery or aircraft service agent. For further details including upgrading from AGM/Pb batteries to lithium and warranty details please contact us at: [admin@lithiummax.com.au](mailto:admin@lithiummax.com.au) or by visiting [www.lithiummax.com.au/forum](http://www.lithiummax.com.au/forum)