



Vehicle, Motorbike and Motorsport battery manual

Thank you for choosing MEGA-LiFe Battery Australia for your energy solution. In purchasing this product, the user agrees that they have read and understood the safety precautions, specifications and instructions listed in this document and other documents available at www.megalifebattery.com.au. MEGALiFe Battery Australia holds no responsibility for personal injury or property damage involving any of its products. Damage of MEGALiFe Battery Australia products due to misuse and/or operations outside of recommended limits will void product warranty and could cause personal injury or property damage.

Safety Warnings

- Do not disassemble, crush or incinerate
- Do not short circuit the terminals
- Do not over charge or over discharge
- Do not reverse connections (polarity) when charging or installing
- Do not operate beyond the published voltage, current and temperature limits.
- Keep out of reach of children
- Further safety and user information at www.megalifebattery.com.au

Specifications

- Charging: Constant current, constant voltage charge (CC/CV) to a maximum of 14.6V
- Maximum discharge rate: 2C
- Maximum charge rate: 1C
- Operating Temperature: -40degC to +75degC
- Charging Temperature: 0degC to 60degC
- Nominal Voltage: 12.8V

Charging

Your MEGA-LiFe Battery will arrive in a ready to use state of charge of 13V or higher. Regular vehicle charging (alternator, rectified magneto, etc) and the IBMS will keep your battery in optimal charge state.

If your battery has been drained below 13V or is being used in a 'deep cycle' or 'total loss' system, recharge the battery using only a lithium specific constant current, constant voltage (CC/CV) charger with a maximum voltage of 14.6V. Certain lead-acid chargers, especially with pulsing or desulfication algorithms, can potentially damage LiFePO4 batteries. Lead-acid float charging algorithms can also leave LiFePO4 batteries in less than 100% SOC.

In solar or storage applications ensure to also use only a CC/CV charging algorithm is used that do not exceed 14.6v.

The IBMS protects MEGA-LiFe from dangerous and damaging undervoltage situations but it is recommended to not discharge the battery below 11.2v to ensure optimum lifespan.



Use of reserve cell and IMBS

- The button operated reserve cell can be used at any SOC for additional CCA or when main battery power has been isolated via IBMS.
- To operate, press the button so the ring light becomes illuminated.
- Operate the starter on the vehicle.
- Once the vehicle is started, press the button again ensuring that the ring light is no longer illuminated.
- **Do not** charge the battery via a charger or vehicle power supply (alternator, rectified magneto, etc) or attempt to jump start the vehicle with the reserve cell light illuminated. The IBMS will charge both main and reserve cells
- If the main battery was below 13v SOC, allow the vehicle to charge the battery to 13v or above before switching vehicle off.

Disposal and recycling

MEGA-LiFe Battery are recyclable and we encourage responsible environmental practices. Please check with your local authority for recycling centers that accept batteries.

Lithium Ion batteries should have their terminals insulated and preferably wrapped in plastic bags prior to disposal to a licensed carrier and/or authorized recycler.

Installation guidelines

- Always wear appropriate personal protective equipment when working with MEGALiFe batteries.
- Before installation, ensure MEGALiFe Battery is at or above 13V SOC and use the correct CC/CV charger if needed to bring voltage above 13V.
- MEGALiFe batteries are designed as direct replacement for most 12V applications on the market. If the correct model has been chosen, no further modification will be needed to your vehicle. Follow manufacturers guidelines for battery replacement and install the battery as instructed.

Maintenance

- Keep terminals clean of debris and corrosion
- Do not use solvents, oil or detergents to clean the outside of your battery. Use a damp cloth to wipe down the battery always being aware not to short the terminals
- For extended periods of storage, keep batteries in a dry environment between 10-35degC at a SOC of 30%

Warranty

Different MEGA-LiFe products hold different warranty conditions that are available at www.megalifebattery.com.au FAQ section.

Thank you again for choosing your new energy solution for a MEGA-LiFe. For further information, please contact us at info@megalifebattery.com.au or via social media.