

WELCOME & THANK YOU

**Thank you for choosing the
ARB Slimline Lithium Battery!**

A premium power solution designed for reliability, performance, and long-lasting energy wherever your journey takes you. Your new Slimline Lithium Battery has been engineered to deliver superior efficiency, lightweight convenience, and dependable power for a wide range of applications.

To ensure you get the most out of your battery, we strongly recommend that you take a few moments to carefully read through this Quick Start Guide. Inside, you'll find important information on first use, operation, safety precautions, and maintenance, along with helpful tips to maximise performance and lifespan.

Getting familiar with your Slimline Lithium Battery will not only help you achieve optimal performance but also ensure safe and trouble-free operation from day one.

If you're new to lithium battery systems, don't worry, this guide is designed to make setup simple and straightforward. Whether you're upgrading your current system or installing a battery for the first time, we're here to support you every step of the way.

Once again, thank you for your purchase and welcome to a smarter, more efficient off-grid power solution.



4X4 ACCESSORIES

ARB SLIMLINE 100: QUICK START GUIDE

LiFePO4 Battery with Built-In DCDC Charger

Step 1: App Setup & First Boot

1. Download ARB Connect - free on Google Play (Android) or the App Store (iOS).
2. Turn the rocker switch to ON. The LED(s) will illuminate – the battery is awake and ready.
3. Open the app → Connection. Tap the magnifying glass or scan the QR barcode on the battery end to pair via Bluetooth.
4. The batteries firmware can be updated via the App. When the firmware requires an update, the App will notify you an update is available. If notified, please ensure the update is completed. Please note, to complete the update, the SOC must exceed 60% with all powered accessories disconnected from the battery.
5. Review General Information for current voltage and cycle count, and Battery Protection to confirm all protections show GOOD. The battery is now ready to be installed.
6. **IMPORTANT – DO NOT LEAVE THE BATTERY AT 0% SOC.** This may permanently damage the cells. If the battery reaches 0% SOC, disconnect all powered accessories and charge the battery immediately using a suitable battery charger with a lithium charge profile.

LED Status Indicator

Battery State	Green LED	Red LED
Switch OFF	● Off	● Off
Sleep Mode	● Off	● Off
Full (95–100% SOC)	● Solid	● Off
Charging - DC/Alternator	● 2 flashes / 5s	● Off
Charging - Solar	● 3 flashes / 5s	● Off
Idle (normal standby)	● 1 flash / 10s	● Off
Low Power ($\leq 10\%$ SOC)	● Off	● Solid
BMS Protection Active	● Off	● 1 flash / s
Fault	● Off	● 3 flashes / s
Firmware Update	● 1 flash / s	● 1 flash / s

Hints & Tips for Best Performance

🔋 **Keep SOC above 20%.** Running flat regularly shortens cell life. Enable the Low Capacity notification in the app (alerts at 20% SOC).

🌙 **Sleep mode is normal.** The battery sleeps after 48 hrs of $<1A$ draw. It wakes automatically when alternator, solar, or a load $>1A$ is connected.

☀️ **Solar needs no regulator.** Connect panels directly – the built-in MPPT/PWM controller handles everything. Max panel input: 30V.

⚡ **Smart alternator?** Connect the Low Voltage terminal to the vehicle ignition. Leave it disconnected for standard alternators – incorrect wiring can flatten the cranking battery.

⚡ **Alternator takes priority.** If both solar and alternator are connected and both meet charge conditions, alternator charges first. Please note, the Slimline battery has an inbuilt 40A DC-DC charger, however, the vehicle may not supply the full 40A to charge the battery. This is normal and the battery can only accept what the vehicle can provide.

🌡️ **Temperature limits charging.** Charging stops below $0^{\circ}C$ and resumes above $5^{\circ}C$. Discharging stops below $-20^{\circ}C$. Protect the battery from extreme cold in winter.

📦 **Long-term storage: Store at 40–60% SOC.** Top up every 3–6 months with a 30–60 min charge. Keep in a cool, dry place between $0-30^{\circ}C$.

🔌 **Fuse blown?** The 300A Mega fuse is user-replaceable. If output terminals show no voltage, check the fuse and the app for active protections before replacing.