







The **Centerfire Lithium** name and enclosure design are inspired by the proven engineering principles of the **50-calibre ammunition case**—a form factor trusted for decades in military, industrial, and expedition environments.

Originally engineered to safely contain and transport high-energy munitions under extreme conditions, the ammunition case is recognised for its **strength, reliability, and simplicity**. Designed to withstand impact, vibration, moisture, dust, and harsh handling, it prioritises function over form—qualities that align directly with TOPO DC POWER's engineering philosophy.

### Designed as a System — Inside and Out

Beyond the enclosure, the Centerfire Lithium is engineered internally as a **complete power system**, not a collection of components. Every internal layout, mounting strategy, and electrical pathway is designed to operate **reliably while charging and discharging in transit**—from open highways to rough unsealed roads and demanding 4×4 tracks.

Internal components are mechanically secured, electrically protected, and thermally managed to maintain performance under continuous vibration and movement. This allows the Centerfire Lithium to function as a dependable energy core while on the move, not just when stationary.

## Portability and Protection by Design

Just as importantly, the original ammunition case was designed to be **handled, moved, and redeployed repeatedly in the field**. This philosophy directly influenced the Centerfire Lithium's emphasis on **true portability**, supported by:

- **A reinforced steel enclosure** for structural protection
- **An integrated collapsible grab handle** for confident lifting and transport
- **A balanced, compact form factor** optimised for vehicles and field use

Connector orientation was also deliberately engineered. **Recessed, stealth-oriented input and output connections** reduce the risk of accidental impact or cable damage while in motion, protect critical interfaces, and significantly reduce overall footprint—delivering both durability and space efficiency.

## One System, Multiple Functions

The Centerfire Lithium consolidates multiple traditionally separate components into a single, integrated platform. At its core, it combines:

- **A-grade, certified lithium battery cells**
- **Heavy-duty steel casing with collapsible carry handle**
- **Advanced Battery Management System (BMS)** for safety and longevity
- **Heavy-duty input (x3) and output (x3) connectors**
- **Built-in 40A DC-DC charger**
- **Integrated dual-battery controller with voltage sensing**
- **Built-in solar charge controller**
- **Dedicated mains charging input**
- **Wireless plug-and-play monitoring** (no Bluetooth pairing or mobile app required)
- **Intuitive onboard display**, providing clear state-of-charge, charge, and discharge indicators without unnecessary complexity

Rather than adding features for novelty, each function is integrated to reduce system complexity, minimise failure points, and simplify real-world use.

## Power That Moves With You

The name **Centerfire** reflects both the product's design heritage and its purpose—**controlled, high-density energy delivery**, engineered for precision and dependability. Just as a centre-fire cartridge represents a reliable ignition system, the Centerfire Lithium represents a dependable core power source that can be **charged, discharged, carried, and redeployed wherever power is needed**.

The result is a product that looks honest, operates predictably, and is built for real-world conditions—where power systems are expected to perform while moving, not just when parked.