







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 (×3) and output (×3) 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.