Custom Power
APTIX® Series



APTIX™ One: Intelligent Power Without Full Custom Development

How a validated, configurable battery platform helps OEMs integrate quickly, certify with confidence and quickly scale from prototype to production.

The challenge

Mission-critical and performance-critical product teams need reliable power, clear battery data, supply-chain traceability and a credible certification pathway.

Defence and autonomous system programmes require dependable operation, rugged integration and production readiness; **medical OEMs** need controlled configuration, documentation and support for regulatory compliance; and **industrial customers** need reliable performance, service continuity and repeatable manufacture.

Engineers in these sectors often face the same challenge: compromise their system around an off-the-shelf battery or accept the cost, delay and technical risk of a fully custom development.

The solution

APTIX™ One provides a practical alternative – a range of **certifiable, intelligent and production-ready lithium-ion batteries** built on a validated platform, configured for the application and designed to scale without changing the underlying battery architecture. This approach supports **rapid deployment** and **dependable operation** in defence applications while also addressing the **compliance, traceability**, integration and production requirements of medical and industrial OEMs in the UK and US.

The benefits of APTIX™ One

Custom Power developed **APTIX™ One** as a configured-to-order product family rather than a stocked COTS range.

The **cell selection, smart BMS, core firmware, protection strategy** and **manufacturing processes** are fixed and validated, giving customers a proven technical and production foundation with controlled configuration and traceability.

Application-specific elements – including **connectors, pinouts, harness lengths, housings, mounting features, labelling, authentication keys, communication protocol** and **regional certification** packages – can then be configured around the customer's system.

This combination supports integration into defence and autonomous platforms, medical equipment and demanding industrial products across the UK, EU and US.

- Creates a credible middle ground between inflexible off-the-shelf batteries and fully custom development.
- Reduces integration time and battery design liability by fixing the high-risk core architecture.
- Provides intelligent telemetry, including battery diagnostics, state of charge, state of health and fault reporting.
- Supports regional compliance and certification requirements across the UK, EU and US.
- Enables customers to move from prototype builds to repeatable production without redesign or requalification.

Discuss your next power project with our team

APTIX™ One is most effective when Custom Power is involved early in the customer's design process. Early collaboration allows the battery configuration, interface, telemetry, mechanical integration and certification pathway to be aligned with the host system before these decisions become costly to change.

Customers can begin with a proven APTIX One architecture and retain a clear route to further application-specific engineering where programme, regulatory or operating requirements demand it.



CP2135-2 at 7.2V and 25Wh
CP3135-2 at 10.8V and 37.5Wh
CP4135-2 at 14.4V and 50Wh



CP4235-2 at 14.4V and approximately 100Wh



CP4435-2 at 14.4V and 200Wh.

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