



CELEBRATING
30
YEARS
1986-2016

ABOUT LINCAD

A privately owned UK company based in Surrey, Lincad has been operating for over 30 years as a designer and manufacturer of bespoke batteries, chargers and power management systems for military and other specialist applications.

Lincad is at the forefront of battery technology and design. Our reputation as a leader in this field has been established by working closely with our customers to ensure that they receive the optimum solution for their system requirements. Our expertise continues to take product performance to new limits, producing lighter, more powerful batteries with faster, more flexible charging solutions.

We can develop products in accordance with International Standards including UK Defence Standards and US Military Standards, and have extensive experience in developing products where EMC (electromagnetic compatibility) may be critical.

We are ISO 9001 registered with expertise in battery electrochemistry and system design including hardware and software engineering. Design and manufacture of all products takes place on our site in Ash Vale. Lincad has in-house PCB population and inspection equipment to ensure that products are built to the highest standards.

The majority of our products contain high energy density lithium-ion technology, but we are able to employ the most suitable electrochemistry for each customer requirement, based on our extensive knowledge of available chemistries. Whilst we work mainly across defence and security, Lincad has developed products for the petrochemical and medical sectors, and can also supply a range of COTS (commercial off-the-shelf) products.

Lincad offers full life cycle product support services that include repairs and upgrades from point of introduction into service, through to disposal at the end of a product's life.

From product inception, through to delivery and in service product support, Lincad offers the high quality service that our customers expect from a recognised British supplier.



LIGHTER, MORE POWERFUL BATTERIES



LIPS 14

LIPS BATTERIES

Lincad's LIPS (Lithium-Ion Power System) range of batteries represents 15 years of evolution in battery technology and design, with the first LIPS battery being produced in 2000.

Continued improvements in capacity and energy density have been enabled through the integration of new cell technology, and enhanced mechanical and electronic design.

The majority of LIPS batteries have been used for man-portable ECM (electronic countermeasure) equipment, but they can be used for a diverse range of applications. The LIPS 14, Lincad's most energy dense product to date, has an energy density of 160 Wh/kg in fully ruggedised form and was shortlisted for the Security Innovation Award 2014.



LIPS 10,11 and 12

HIGH POWER BATTERIES

Lincad's high power batteries illustrate our ability to take lithium-ion technology to its limits, integrating it with enhanced mechanical and electronic design to provide bespoke power management solutions to satisfy demanding end user requirements.

Lincad designed and manufactured the high power battery used to power Northrop Grumman's CUTLASS ROV (remotely operated vehicle) used for EOD (explosive ordnance disposal). The battery provides power for the ROV's various sensors and tools. Lincad has also developed a high power battery for a submersible AIV (autonomous inspection vehicle) used in the petrochemical industry.



EOD ROV battery

OTHER BATTERIES

As well as its own range of LIPS and bespoke high power batteries, Lincad designs and manufactures other batteries of various electrochemistries.

Lincad has recently developed a hand-held radio battery for Thales, and has produced various batteries for other military and specialist applications. Whatever the application, however big or small, Lincad can offer a solution for your requirements.

FASTER, MORE FLEXIBLE CHARGERS

While Lincad produces chargers for its own range of LIPS batteries, the most recent additions to the product portfolio, the Caravel Mk2 and Power Scavenger are able to charge third party batteries of any electrochemistry.

CARAVEL MK2

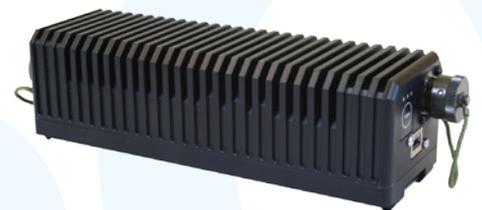
Lincad's multi-chemistry Caravel Mk2 Charger is an enhanced, cutting edge replacement for the original Caravel Charger which has seen frontline service with British and international armed forces for 15 years. The Caravel Mk2 charges batteries of any electrochemistry from any original equipment manufacturer via battery interface adaptors, allowing the management of an entire fleet of batteries from a single type of charger. With dual USB connectivity, it also charges smartphones, tablets and other mobile devices, and can be used as a stand-alone bench power supply.



Caravel Mk2

POWER SCAVENGER

Lincad's multi-chemistry Power Scavenger offers a solution to mobile power management in any situation where reliability, weight and ease of use are critical. Fully ruggedised and sealed, the Power Scavenger is suitable for use in the harshest tactical environments. The Power Scavenger allows the end user to scavenge and distribute power to where it is needed via battery interface adaptors, charging any type of battery from any suitable DC input such as solar panels, a vehicle or other batteries. With USB connectivity, it can charge smartphones, tablets and other mobile devices.



Power Scavenger

Designed for simplicity of operation, both the Caravel Mk2 and Power Scavenger offer flexible, all-purpose solutions for battery charging in barracks and mobile environments, with the Caravel Mk2 and the Power Scavenger sharing a family of BIA's (Battery Interface Adaptors). With in-service configurable software, they provide the end-user with the reassurance that all their current and future battery charging requirements are met.

POWER MANAGEMENT SYSTEMS

Lincad produces a range of power management systems that provide regulated, uninterrupted power for critical applications. These high power systems can be tailored to the highest mechanical and environmental specifications for use under extreme conditions.

Lincad designed and manufactured the BPMS (Battery Power Management System) used to power Selex ES's LINAPS (Laser Inertial Artillery Pointing System) used for artillery and mortar platforms. Offering a robust and reliable power source for both mobile and stationary placement systems, the BPMS demonstrates Lincad's engineering expertise at its best.



BPMS

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