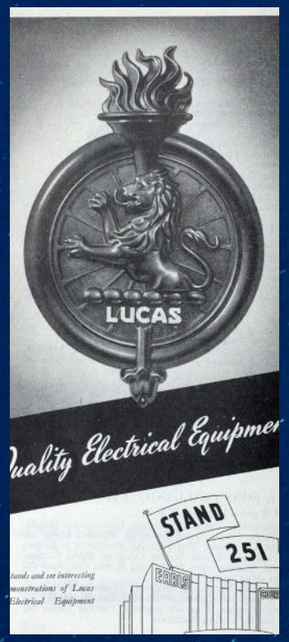
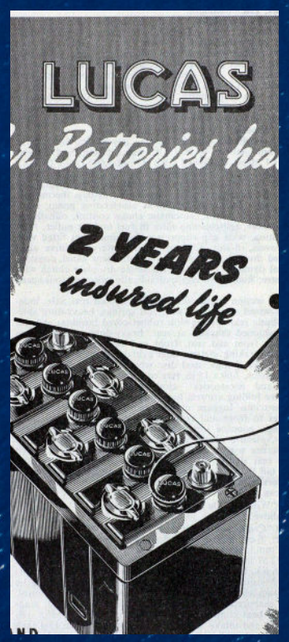
Lucas

BATTERY CATALOGUE
MARINE AND LEISURE

Lucas

LUCAS BATTERIES. OUR HERITAGE.





With a history spanning more than a century, Lucas has consolidated its position as a benchmark in the automotive and industrial world. The brand has not only grown over time, but has actively contributed to its own continued development.

The story began in 1834 with the birth of Joseph Lucas in Birmingham. His foray into the marketing of paraffin oil for household lamps in the 1860s was the prelude to much greater success in the field of transport. In 1875, Lucas opened a modest workshop in Little King Street, Birmingham, UK, employing just 5 people. However, this marked the beginning of a steady expansion. In the early 20th century, Lucas expanded its product offering by introducing its batteries to the market.

Browsing through these pages, you will discover examples of the first promotional brochures that led the way. This catalogue introduces you to the most cutting-edge types and applications we offer today. Lucas stands for durability, reliability and innovation. Join us on this exciting journey into an energy-powered future. In the Lucas catalogue, you will find the perfect solution for your needs.

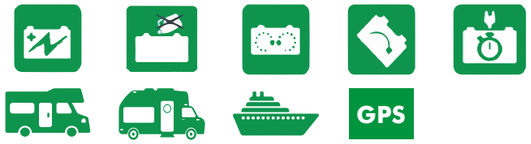
Lucas

The most demanding marine and leisure batteries

Lucas AGM

LUCAS AGM batteries offer high reliability and long life. It withstands extreme environments and especially freezing temperatures. The battery requires no maintenance other than initial filling to activate the battery.

The AGM battery range incorporates proven AGM technology and is suitable for most applications, especially where high starting power is demanded (Start AGM range), for Starting and Powering Equipment (Dual AGM range).



Lucas GEL

LUCAS GEL batteries are the first choice for high power needs such as GPS, radio, additional, etc. Minimal self discharge allows for seasonal use or long storage periods. The gel technology is the most advanced technology for supplying equipment. The battery does not require any maintenance.

The GEL range of batteries offer a higher number of charge and discharge cycles and a high energy density.

Lucas LEAD ACID

LUCAS Lead Acid batteries with liquid electrolyte and plugs with built-in gas outlet are useful for engine starting. Equipment and Dual power supply. They offer high starting power.

The LEAD ACID range of batteries is maintenance free, and is one of the most versatile solutions for all types of equipment.

Lucas DEEP CYCLE

LUCAS Deep Cycle batteries are specially designed for cyclic deep discharge applications, by providing more active mass on the plates to achieve a longer service life. They are ideal for certain applications that require more than a quick start.

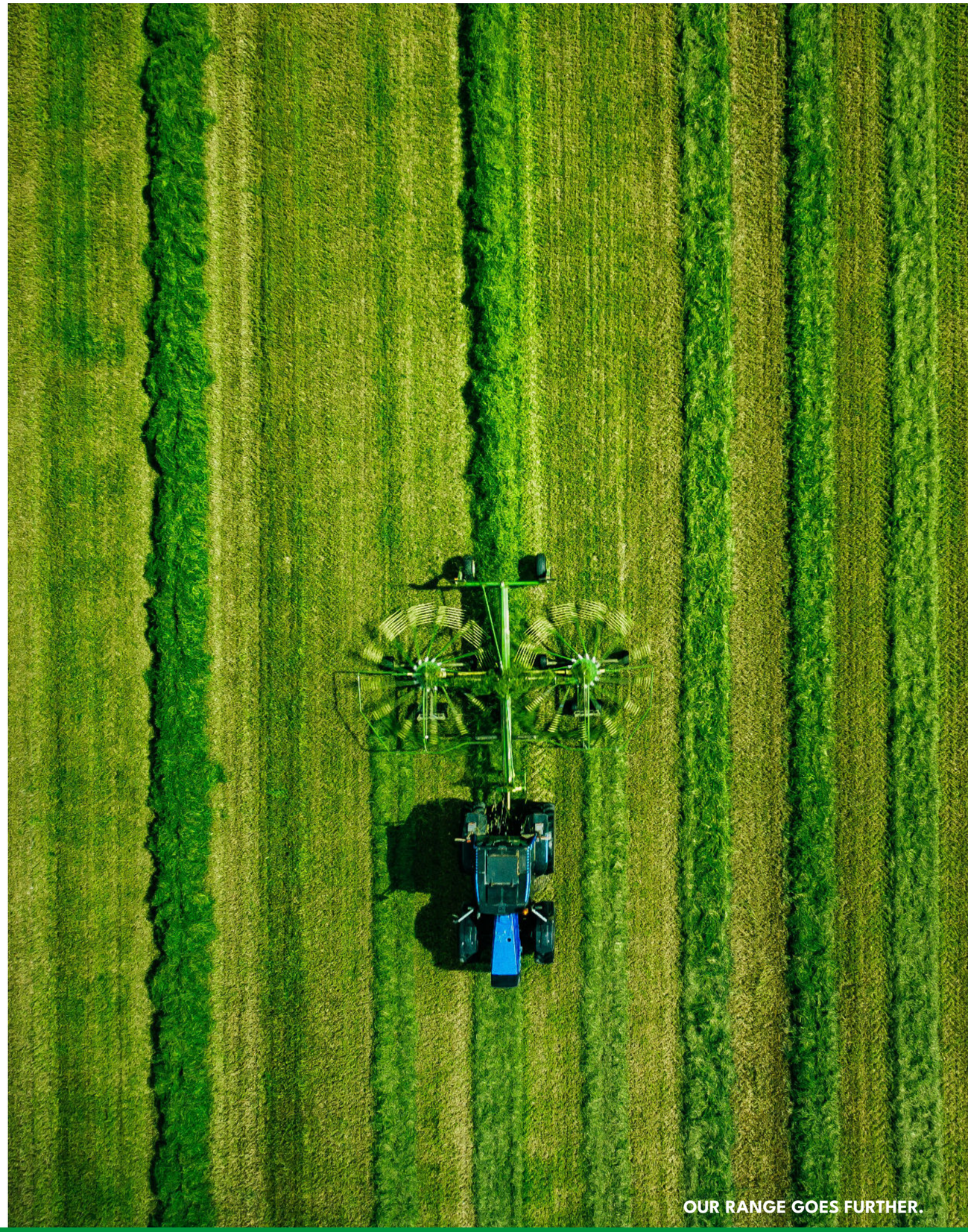
A deep cycle battery is a lead acid battery designed to supply sustained power for an extended period of time in a safe manner until it is discharged to 80% or more, at which point it must be recharged.

Instructions

- High starting power
- Maintenance-free
- Internal gas recombination
- Side mounting
- Saving recharging time
- High energy density
- Increased number of charge and discharge loading and unloading
- Requires minimal maintenance
- Low gas emissions
- Horizontal mounting
- Vertical mounting
- Starting and powering equipment

Catalogues

- Motorhome
- Caravan
- Tractor
- Boat
- GPS — Boat equipment
- Cleaning machines
- Electric vehicles



MARINE

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APPLICATIONS

MOTOR BOATS

NON-MOTORISED BOATS

WATER MOTORS

LUCAS offers the widest range of batteries for boats of any type you may need. We supply starter batteries for boat engines as well as large marine leisure batteries. 12V marine batteries are the most common type of marine battery on the market, but some boats, especially older or classic boats, may require a 6V marine battery. We have a wide range of 6V and 12V marine batteries.

Boats are powered by one or more batteries, depending on the electrical system on board and the conditions of use. When it comes to powering your boat's electronic equipment, a marine battery is more suitable than a starter battery. The possible configurations are

· Engine only (START): boats where the batteries are used only to start the engine and the electrical equipment is not powered when the engine is off.
· Engine and equipment (DUAL): boats where a single set of batteries provides power to start the engine and power the electrical equipment.
· Equipment: batteries used only to power the vessel's electrical and electronic equipment.

The choice of battery will depend mainly on the type of engine on your vessel (2-stroke or 4-stroke), the power (HP) to calculate the CCA (Cold Cranking Amps) or recommended starting power. Next, check the dimensions of the battery in relation to the space available on board. Finally, choose the battery capacity, measured in Ah, according to the required duration: the higher the capacity, the longer the battery life.

CARAVANS

APPLICATIONS

CARAVANS

CAMPERVANS

MOTORHOME

A 12V battery is needed to power a caravan's equipment. Caravan batteries are used to power lights, water pumps and other 12V appliances when they are not connected to the mains. For motorhomes, choose dual-purpose batteries.

The right battery for caravans and motorhomes is essential to keep your vehicle running smoothly. While caravans need a single battery, motorhomes need a starter battery to start the engine and an auxiliary battery to run on-board electronics such as the fridge or GPS.

In the case of motorhomes, size is crucial, so it's important to check the space available to install the new battery. Nowadays, motorhomes tend to use AGM batteries to meet their electrical needs and they are also the best for use with solar panels.

LUCAS has the widest range of caravan/motorhome/motorhome batteries for all vehicle ranges and models, so you can choose from the different batteries available or search by voltage and capacity. It is essential that, before buying, you check the measurements of the existing battery you need, i.e. the height, length, width and placement of the terminals.

OTHER SOLUTIONS

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APPLICATIONS

GARDENING

CLEANERS AND SWEEPERS

ELECTRIC VEHICLES AND TRACTORS

LUCAS has a wide range of batteries for applications such as:
- Lawn mowers
- Landscaping
- Sweepers and cleaning machines
- Electric lorries
- Electric vehicles

LUCAS batteries for sweepers and cleaners allow you to get the best performance adapted to the characteristics of the equipment, so that they work at maximum performance and for as long as possible, improving productivity. Deep Cycle batteries fulfil these characteristics, providing excellent performance.

LUCAS batteries for agricultural vehicles, designed specifically for this purpose, offer excellent starting power as well as all the reserves needed to power cab devices such as the air conditioning system. In addition, they are low-maintenance products that reduce operating costs.

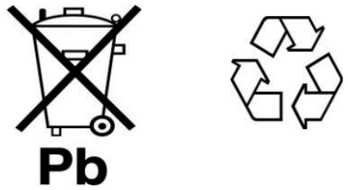
OUR RANGE GOES FURTHER.

COSHH Information

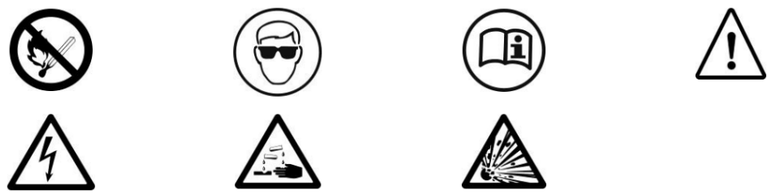
Hazards Identification
No hazards occur during the normal operation of a lead acid battery as it is described in the instructions for use that are provided with the battery. Lead-acid batteries have three significant characteristics:
· They contain an electrolyte which contains dilute sulphuric acid. Sulphuric acid may cause severe chemical burns.
· During the charging process or during operation they might develop hydrogen gas and oxygen, which under certain circumstances may result in an explosive mixture.
· They can contain a considerable amount of energy, which may be a source of high electrical current and a severe electrical shock in the event of a short circuit.

Handling and Storage
Store under roof in cool ambiance - charged lead-acid batteries do not freeze up to -50˚C; prevent short circuits. Seek agreement with local water authorities in case of larger quantities of batteries to be stored. If batteries have to be stored, it is imperative that the instructions for use are observed.

Regulatory Information
In accordance with the EU Battery Directive and the respective national legislation, lead-acid batteries have to be marked by a crossed out dust bin with the chemical symbol for lead shown below, together with the ISO return/recycling symbol.



In addition, the batteries have to be labelled with some or all of the following hazard symbols:



Labelling might vary due to the application, design, dimension and country of sale of the batteries. The manufacturer, respectively the importer of the batteries shall be responsible for placing the symbols (a minimum size is specified).

Environmental Information

Battery recycling can be defined as the process to recycle batteries instead of disposing them into the garbage after just a single use.

The aim is to reduce the overall number of battery trash that is produced every year on a global scale since battery garbage can lead to various forms of contamination, including water and soil pollution.

In response to the 'Hazardous Waste Regulations' appertaining to the disposal of lead acid batteries, all the battery wholesaler are now obliged to provide a collection service for scrap lead acid batteries.

There are huge differences around the world regarding the efforts and efficiency of battery recycling. Please take care about your local regulations concerning batteries waste management.

Battery recycling is important in order to:

· Reduction of soil pollution
· Mitigation of water pollution
· Groundwater protection
· Fight natural resource depletion
· Suitable treatment of toxic chemicals
· Reduction in overall waste production
· Fight global warming
· Reduction in environmental dumping

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