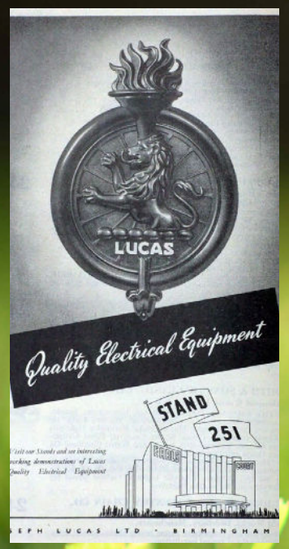
Lucas

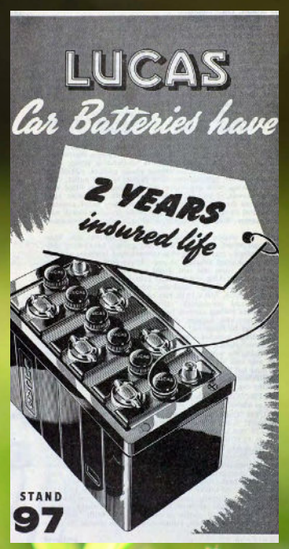
BATTERY CATALOGUE MOBILITY 2022

OUR RANGE GOES FURTHER.

Lucas

LUCAS BATTERIES. OUR HERITAGE.





Lucas is a great brand that has been growing its business for 140 years. It doesn't rely on its heritage, it grows with it. And it continues to grow. That's why it is the longest-established automotive and industrial solutions brand that has been in the market for the longest time.

Joseph Lucas, born in Birmingham in 1834, began marketing paraffin oil for household lamps in the 1860s and soon saw the potential to expand into the transport market.

In 1875 he opened a small workshop in Little King Street, Birmingham, UK, with 5 employees. In the early 20th century, Lucas expanded his product range and introduced his batteries to the market.
On this page you can see some of the early promotional brochures. Of course, Lucas batteries have evolved with the times. In this catalogue, you will find the latest types and applications we offer.

LEAD BATTERIES

Maintenance-free lead-acid batteries (VRLA)

Valve-regulated lead-acid batteries (VRLA) are maintenance-free and can be divided into two categories depending on the technology used:

- VRLA GEL
- VRLA AGM

Neither type requires water refilling, with the important advantage that maintenance requirements are reduced to inspection and cleaning. The electrolyte is fixed to the Gel or AGM and off-gassing is negligible, due to a recombination process that actively prevents water decomposition.

VRLA Gel

GEL

LUCAS valve-regulated lead-acid (VRLA) batteries manufactured with a GEL structure are particularly robust and are used as standard in material handling, cleaning and mobility applications. They are often used in light to medium applications due to their energy capacity and charging time.

PzV batteries are a series of valve-regulated, tube-plate GEL-type elements with gas recombination, suitable for use in food, pharmaceutical and chemical storage areas and meet the requirements of low to normally demanding operating profiles.

VRLA AGM

AGM

LUCAS valve-regulated lead-acid (VRLA) batteries, manufactured with an absorbed glass mat (AGM) structure, feature thinner plates, allowing for a higher number of plates per available volume compared to traditional lead-acid batteries and faster charging.

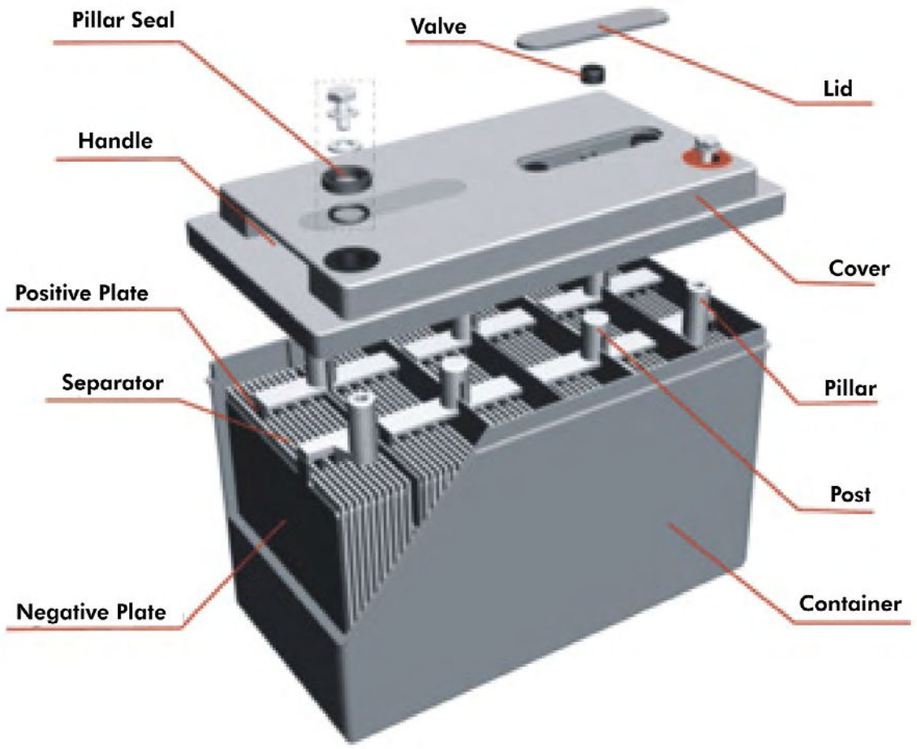
The inherent characteristics of VRLA AGM technology such as low internal resistance, high energy density and fast recharge make this technology particularly suitable for the powertrain sector.

DEEP CYCLE

DC

LUCAS Deep Cycle batteries are specially designed for deep discharge cyclic applications, by providing a higher 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.



LITHIUM BATTERIES

Li

The lithium-ion battery system is an energy storage system based on electrochemical charge/discharge reactions that occur between a positive electrode (cathode) containing some lithium metal oxide and a negative electrode (anode) that is made of carbon material or intercalation compounds.

The electrodes are separated by porous polymeric materials that allow the flow of electrons and ions between them, and are immersed in an electrolyte composed of lithium salts (such as LiPF6) dissolved in organic liquids.

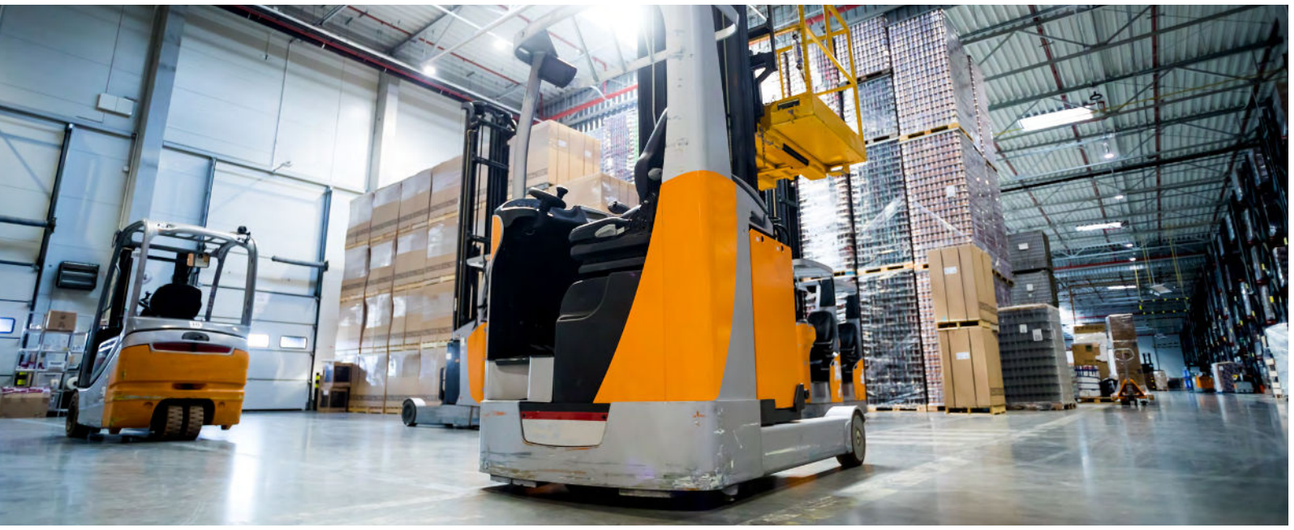
When the battery is charged, the lithium atoms at the cathode are converted into ions and migrate through the electrolyte to the carbon anode, where they combine with external electrons and are deposited between the carbon layers as lithium atoms. This process is reversed during discharge.

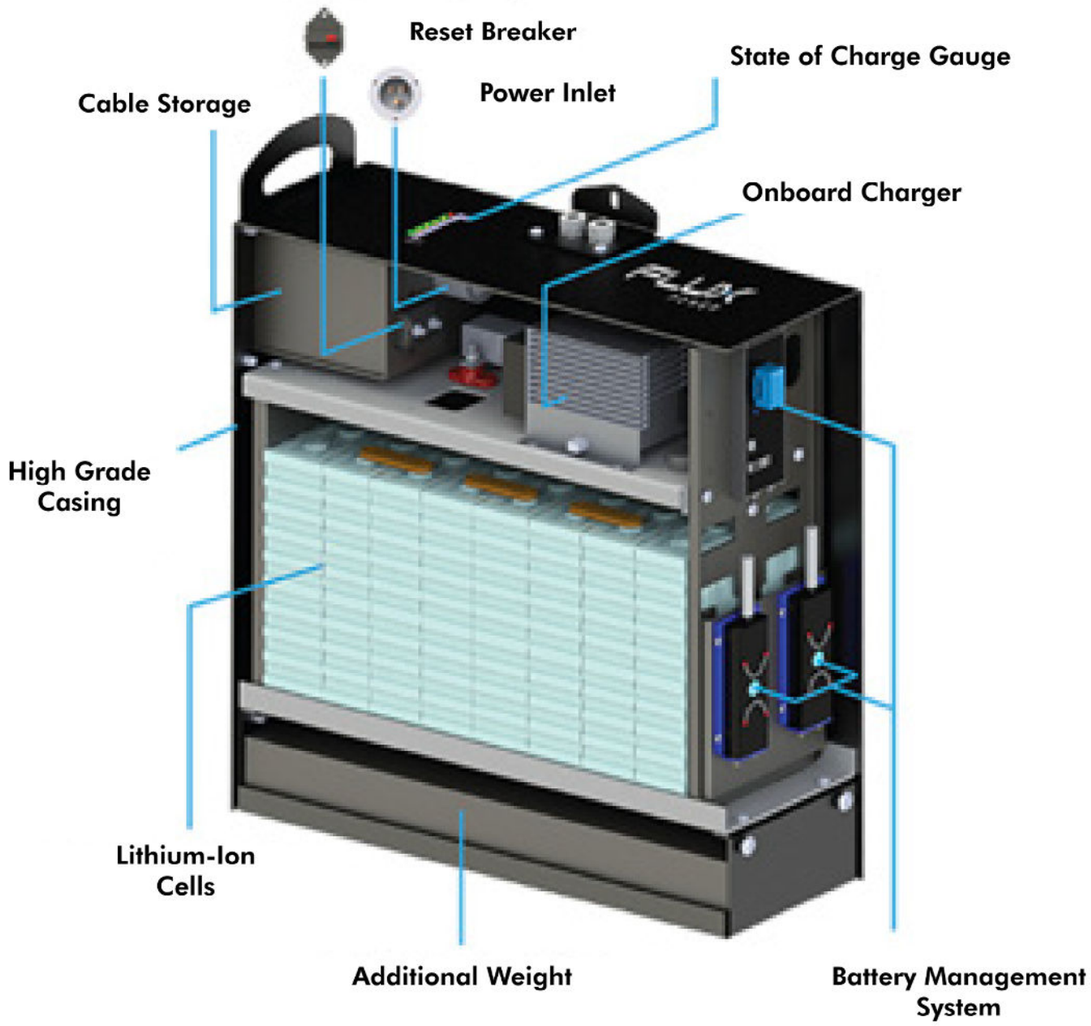
Lithium-ion batteries come in several different varieties, including

- Different cell shapes: cylindrical, prismatic, etc.
- Different electrochemicals, such as LiCo2, LiNCA, Li-NMC, LiFePO4, LiMn2O4, etc.
- Liquid electrolyte or polymer electrolyte.
- Different electrode thicknesses depending on the energy/power ratio.

The advantages of lithium batteries are several:

- Battery capacity is over 80% after charging and discharges under 100% DOD after 3,500 cycles.
- The lifetime of the battery is more than 10 years.
- Weight is only 25% of the equivalent lead-acid battery.
- Extensibility by parallel or series connection for higher capacity or voltage.
- Improved thermal and chemical stability compared to other batteries.
- Maintenance free.





GOLF

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APPLICATIONS

TROLLEYS

BOOGEY

CARTS

Golf carts often have 12-volt batteries installed. Golf battery types come in many different sizes, so it is important that the correct batteries are purchased. It is important to check the existing battery capacity (Ah) which can be found on the front or side of the battery casing.

LUCAS has golf batteries that guarantee maximum reliability. These premium quality golf batteries have an extra deep cycle capacity for a longer life and are also completely maintenance free.

LUCAS has golf batteries for all types of golf applications such as golf carts, golf trolleys and golf buggies. We also offer golf battery chargers and accessories. The LUCAS brand is very popular with golfers and we now stock the latest range of lithium batteries.

Types of Batteries:

DC

Li

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MOBILITY

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APPLICATIONS

SCOOTERS

ELECTRIC BICYCLES

INDIVIDUAL MOBILITY ELEMENTS

LUCAS has a wide range of 12V batteries for all types of applications in the most popular technologies, from AGM and Gel to lightweight lithium batteries for mobility scooters, with every solution for every need.

Our entire eBike battery range contains high-performance lithium-ion cells and comes with a two-year warranty.

We also have a wide range of batteries for individual mobility elements. A complete list of compatible batteries can be found in the enclosed catalogue. Amongst others LUCAS has a complete range of batteries for:

- Quads
- Segway
- Etc.

Types of Batteries:

AGM

GEL

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HEALTH

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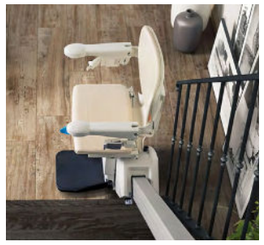
APPLICATIONS

WHEEL CHAIR



STAIRLIFTS

INDIVIDUAL MOBILITY ELEMENTS

LUCAS has a complete range of batteries for healthcare related mobility applications, meeting the highest quality standards of the medical industry.

All our batteries are fully guaranteed against manufacturing defects and adapted to extreme conditions of use. High quality batteries for electric wheelchairs.

Among the Healthcare applications where LUCAS batteries are available are:

- Stairlifts
- Medical equipment
- Orthopaedics

Types of Batteries:

AGM **GEL**

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OTHER SOLUTIONS

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APPLICATIONS

CLEANERS AND SWEEPERS

ELECTRIC VEHICLES

TRACTORS

LUCAS has a wide range of batteries for applications such as:
- Ride-on mowers
- Gardening
- Cleaners and Sweepers
- Electric Trucks
- Electric vehicles

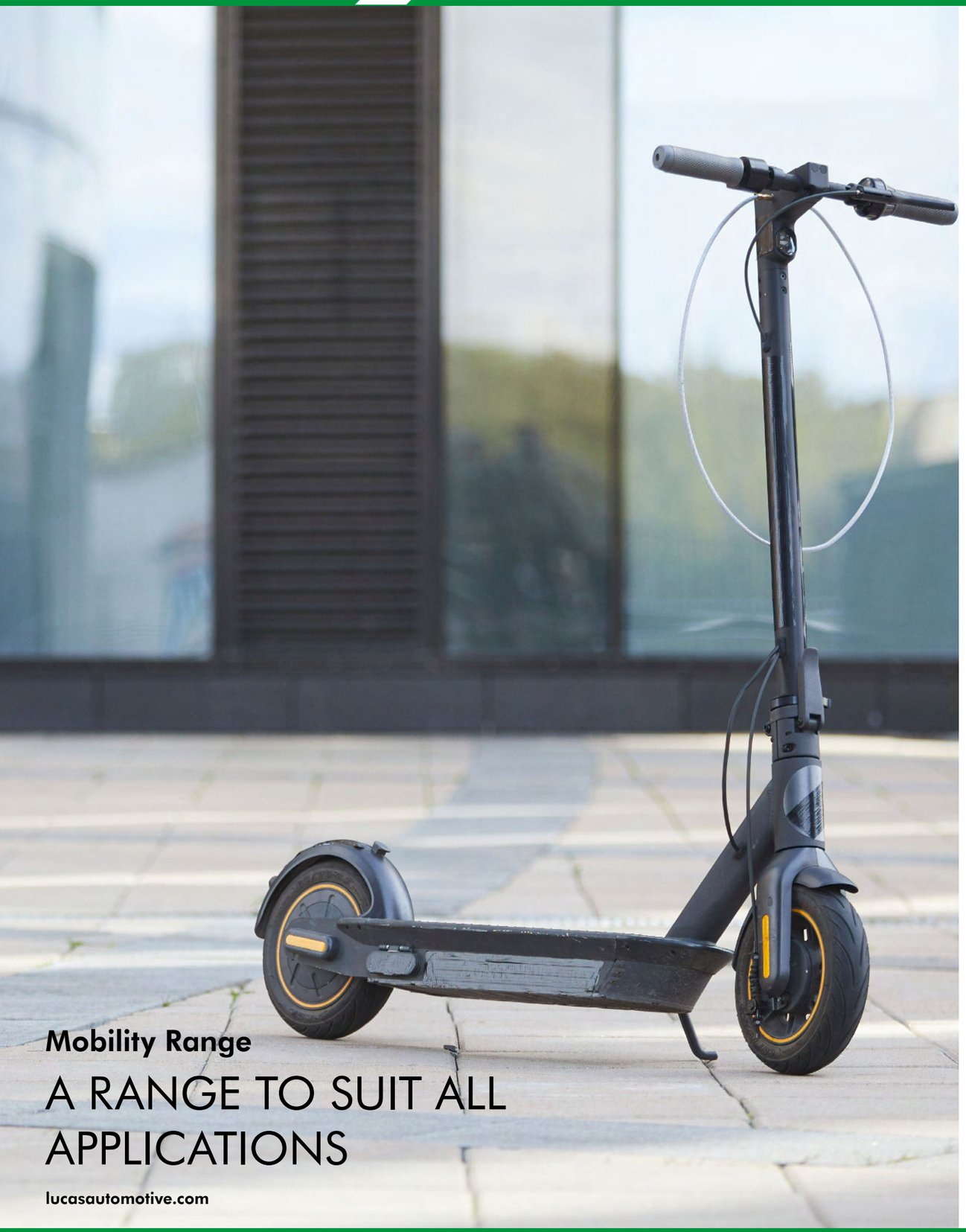
This range of vehicles has been growing rapidly in recent years as a result of the electrification of means of transport.

Industrial applications are very demanding, requiring high performance, high cycling tolerance and long service life.

Types of Batteries:

AGM | GEL | DC | Li

OUR RANGE GOES FURTHER.



Mobility Range

A RANGE TO SUIT ALL APPLICATIONS

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Lucas Premium
Origin EUROPEAN UNION

LUCAS AGM

Lucas reference	Definition	V	C20 (Ah)	L (mm)	W (mm)	H (mm)	Layout	Terminal	Hold-down	Weight (kg)
	LUCAS PREMIUM 9AH/ 12V	12	9	151	65	94		F1		2,55
	LUCAS PREMIUM 13AH/ 12V	12	13	151	98	95		F2		4,20
	LUCAS PREMIUM 15AH/ 12V	12	15	151	98	99		F2		4,50
	LUCAS PREMIUM 19AH/ 12V	12	19	181	77	167		F3		5,70
	LUCAS PREMIUM 23AH/ 12V	12	23	181	77	167		F3		6,00
	LUCAS PREMIUM 23AH/ 12V	12	23	181	77	167		F13		6,00
	LUCAS PREMIUM 30AH/ 12V	12	30	166	175	125		F13		9,00
	LUCAS PREMIUM 36AH/ 12V	12	36	195	130	163		F11		10,20
	LUCAS PREMIUM 50AH/ 12V	12	50	198	166	171		F11		14,60
	LUCAS PREMIUM 56AH/ 12V	12	56	229	138	210		F11		18,00
	LUCAS PREMIUM 63AH/ 12V	12	63	260	168	178		F11		20,00
	LUCAS PREMIUM 67AH/ 12V	12	67	350	167	180		F11		21,00
	LUCAS PREMIUM 77AH/ 12V	12	77	260	169	210		F11		23,50
	LUCAS PREMIUM 80AH/ 12V	12	80	350	167	180		F11		24,00
	LUCAS PREMIUM 93AH/ 12V	12	93	306,5	168,5	211		F12		28,50
	LUCAS PREMIUM 107AH/ 12V	12	107	328	172	222		F12		30,00
	LUCAS PREMIUM 128AH/ 12V	12	128	407	177	225		F12		35,00
	LUCAS PREMIUM 143AH/ 12V	12	143	340	173	280		F12		41,50
	LUCAS PREMIUM 160AH/ 12V	12	160	483	170	240		F12		44,50
	LUCAS PREMIUM 193AH/ 12V	12	193	530	209	214		F12		53,00
	LUCAS PREMIUM 214AH/ 12V	12	214	522	240	219		F12		60,00
	LUCAS PREMIUM 243AH/ 12V	12	243	522	240	223		F14		65,00
	LUCAS PREMIUM 278AH/ 12V	12	278	520	268	220		F14		74,00

LUCAS GEL

Lucas reference	Definition	V	C5 (Ah)	L (mm)	W (mm)	H (mm)	Layout	Terminal	Hold-down	Weight (kg)
	LUCAS PREMIUM 180AH/ 6V	6	180	242	190	275	diagonal	A-Pole	B0	34,50
	LUCAS PREMIUM 240AH/ 6V	6	240	311	181	360	0	A-Pole	B0	50,60
	LUCAS PREMIUM 270AH/ 6V	6	270	311	181	360	diagonal	A-Pole	B0	54,90
	LUCAS PREMIUM 51AH/ 12V	12	51	276	175	190	0	A-Pole	B13	24,00
	LUCAS PREMIUM 65AH/ 12V	12	65	352	175	190	0	A-Pole	B13	28,00
	LUCAS PREMIUM 69AH/ 12V	12	69	250	150	400	0	M8	B0	
	LUCAS PREMIUM 70AH/ 12V	12	70	308	175	225	0	A-Pole	B1	29,30
	LUCAS PREMIUM 105AH/ 12V	12	105	345	170	285	0	A-Pole	B0	41,80

LUCAS PzV

Lucas reference	Definition	V	C5 (Ah)	L (mm)	W (mm)	H (mm)	Layout	Terminal	Hold-down	Weight (kg)
	LUCAS PREMIUM 175AH/ 6V	6	175	243	187,5	275		F14		
	LUCAS PREMIUM 60AH/ 12V	12	60	260	169	210		F11		
	LUCAS PREMIUM 80AH/ 12V	12	80	328	172	222		F12		
	LUCAS PREMIUM 100AH/ 12V	12	100	407	177	225		F12		
	LUCAS PREMIUM 110AH/ 12V	12	110	328	180	279,5		M8		
	LUCAS PREMIUM 200AH/ 12V	12	200	520	268	220		F12		

LUCAS DEEP CYCLE

Lucas reference	Definition	V	C20 (Ah)	L (mm)	W (mm)	H (mm)	Layout	Terminal	Hold-down	Weight (kg)
	LUCAS PREMIUM 210AH/ 6V	6	210	260	180	275		Dual Fit		26,50
	LUCAS PREMIUM 225AH/ 6V	6	225	260	180	275		Dual Fit		28,60
	LUCAS PREMIUM 240AH/ 6V	6	240	260	180	275		Dual Fit		30,70
	LUCAS PREMIUM 260AH/ 6V	6	260	260	180	295		Dual Fit		33,00
	LUCAS PREMIUM 330AH/ 6V	6	330	295	178	365		Dual Pol		42,70
	LUCAS PREMIUM 420AH/ 6V	6	420	295	178	415		Dual Pol		
	LUCAS PREMIUM 170AH/ 8V	8	170	260	180	275		ET		32,40
	LUCAS PREMIUM 190AH/ 8V	8	190	260	180	275		ET		31,60
	LUCAS PREMIUM 150AH/ 12V	12	150	328	180	276		ET		37,50

OUR RANGE GOES FURTHER.

LUCAS SEMI-TRACTION

Lucas reference	Definition	V	C20 (Ah)	L (mm)	W (mm)	H (mm)	Layout	Terminal	Hold-down	Weight (kg)
	LUCAS PREMIUM 230AH/ 6V	6	230	242	190	274	diagonal	A-Pole	B0	32,00
	LUCAS PREMIUM 60AH/ 12V	12	60	246	175	190	0	A-Pole	B13	17,00
	LUCAS PREMIUM 80AH/ 12V	12	80	278	175	190	0	A-Pole	B13	19,50
	LUCAS PREMIUM 105AH/ 12V	12	105	353	175	190	0	A-Pole	B0	25,00
	LUCAS PREMIUM 120AH/ 12V	12	120	347	175	234	0	A-Pole	B0	29,90
	LUCAS PREMIUM 135AH/ 12V	12	135	349	175	290	0	A-Pole	B0	37,80
	LUCAS PREMIUM 180AH/ 12V	12	180	513	224	225	3	A-Pole	B0	48,60
	LUCAS PREMIUM 225AH/ 12V	12	225	518	276	242	3	A-Pole	B0	62,00
	LUCAS PREMIUM 137AH/ 12V	12	137	513	189	223	3	A-Pole	B0	37,40

LUCAS MONOBLOCK

Lucas reference	Definition	V	C20 (Ah)	L (mm)	W (mm)	H (mm)	Layout	Terminal	Hold-down	Weight (kg)
	LUCAS PREMIUM 225AH/ 6V	6	225	242	190	275	diagonal	A-Pole	B0	29,00
	LUCAS PREMIUM 225AH/ 6V	6	225	260	180	275	diagonal	A-Pole	B0	28,20
	LUCAS PREMIUM 240AH/ 6V	6	240	242	190	275	diagonal	A-Pole	B0	32,10
	LUCAS PREMIUM 245AH/ 6V	6	245	260	180	275	diagonal	A-Pole	B0	30,60
	LUCAS PREMIUM 290AH/ 6V	6	290	311	181	360	diagonal	A-Pole	B0	45,20
	LUCAS PREMIUM 310AH/ 6V	6	310	311	181	360	diagonal	A-Pole	B0	47,00
	LUCAS PREMIUM 65AH/ 12V	12	65	278	175	190	0	A-Pole	B13	17,70
	LUCAS PREMIUM 90AH/ 12V	12	90	330	175	225	0	A-Pole	B1	28,30
	LUCAS PREMIUM 115AH/ 12V	12	115	345	173	233	0	A-Pole	B0	30,00
	LUCAS PREMIUM 130AH/ 12V	12	130	345	173	284	0	A-Pole	B0	37,30
	LUCAS PREMIUM 165AH/ 12V	12	165	510	175	225	4	A-Pole	B13	40,00
	LUCAS PREMIUM 175AH/ 12V	12	175	512	223	220	3	A-Pole	B0	46,40
	LUCAS PREMIUM 210AH/ 12V	12	210	513	218	215	4	A-Pole	B13	46,00
	LUCAS PREMIUM 240AH/ 12V	12	240	517	270	240	4	A-Pole	B13	68,00

Lucas Premium
Origin CHINA

LUCAS AGM

Lucas reference	Definition	V	C20 (Ah)	L (mm)	W (mm)	H (mm)	Layout	Terminal	Hold-down	Weight (kg)
	LUCAS PREMIUM 12AH/ 12V	12	12	151	98	95		METRICA		3,95
	LUCAS PREMIUM 14AH/ 12V	12	14	151	98	95		METRICA		4,35
	LUCAS PREMIUM 20AH/ 12V	12	20	151	98	95		METRICA		4,75
	LUCAS PREMIUM 115AH/ 12V	12	115	260	168	210		M6		26,50
	LUCAS PREMIUM 147AH/ 12V	12	147	332	174	216		M8		35,00
	LUCAS PREMIUM 175AH/ 12V	12	175	405	167	240		M8		42,10

LUCAS AGM DC

Lucas reference	Definition	V	C20 (Ah)	L (mm)	W (mm)	H (mm)	Layout	Terminal	Hold-down	Weight (kg)
	LUCAS PREMIUM 200AH/ 6V	6	200	306	168	220				30,00
	LUCAS PREMIUM 210AH/ 6V	6	210	260	180	246				29,50
	LUCAS PREMIUM 220AH/ 6V	6	220	306	168	220				31,50
	LUCAS PREMIUM 225AH/ 6V	6	225	243	187	275				30,50
	LUCAS PREMIUM 250AH/ 6V	6	250	260	180	265				34,50
	LUCAS PREMIUM 310AH/ 6V	6	310	295	178	346				46,00
	LUCAS PREMIUM 330AH/ 6V	6	330	295	178	346				46,60
	LUCAS PREMIUM 380AH/ 6V	6	380	295	178	404				55,30
	LUCAS PREMIUM 420AH/ 6V	6	420	295	178	404				56,80
	LUCAS PREMIUM 200AH/ 8V	8	200	260	182	295				38,00
	LUCAS PREMIUM 20AH/ 12V	12	20	181	77	167				6,00
	LUCAS PREMIUM 26AH/ 12V	12	26	166	175	126				8,30
	LUCAS PREMIUM 26AH/ 12V	12	26	165	126	174				8,00
	LUCAS PREMIUM 35AH/ 12V	12	35	196	131	155				10,50
	LUCAS PREMIUM 40AH/ 12V	12	40	198	166	174				14,20
	LUCAS PREMIUM 50AH/ 12V	12	50	198	166	174				14,50
	LUCAS PREMIUM 55AH/ 12V	12	55	229	138	208				16,00
	LUCAS PREMIUM 70AH/ 12V	12	70	350	167	178				23,30
	LUCAS PREMIUM 75AH/ 12V	12	75	260	169	211				25,00
	LUCAS PREMIUM 85AH/ 12V	12	85	260	169	211				26,10
	LUCAS PREMIUM 90AH/ 12V	12	90	307	169	211				28,20
	LUCAS PREMIUM 100AH/ 12V	12	100	307	169	211				30,20
	LUCAS PREMIUM 110AH/ 12V	12	110	331	176	215				33,30
	LUCAS PREMIUM 120AH/ 12V	12	120	407	174	208				39,20
	LUCAS PREMIUM 135AH/ 12V	12	135	341	173	283				40,80
	LUCAS PREMIUM 150AH/ 12V	12	150	484	171	241				45,50
	LUCAS PREMIUM 180AH/ 12V	12	180	532	206	215				56,00
	LUCAS PREMIUM 200AH/ 12V	12	200	532	206	215				58,40
	LUCAS PREMIUM 220AH/ 12V	12	220	522	240	219				65,00
	LUCAS PREMIUM 240AH/ 12V	12	240	520	268	203				71,00
	LUCAS PREMIUM 260AH/ 12V	12	260	520	268	220				77,00

LUCAS GEL

Lucas reference	Definition	V	C10 (Ah)	L (mm)	W (mm)	H (mm)	Layout	Terminal	Hold-down	Weight (kg)
	LUCAS PREMIUM 100AH/ 12V	12	100	330	172	214		METRICA		29,60
	LUCAS PREMIUM 120AH/ 12V	12	120	409	177	207		METRICA		35,00
	LUCAS PREMIUM 150AH/ 12V	12	150	483	170	240		METRICA		44,30
	LUCAS PREMIUM 200AH/ 12V	12	200	522	240	218		METRICA		59,60
	LUCAS PREMIUM 250AH/ 12V	12	250	522	240	218		METRICA		69,60
	LUCAS PREMIUM 33AH/ 12V	12	33	195	130	154		METRICA		
	LUCAS PREMIUM 40AH/ 12V	12	40	198	166	170		METRICA		
	LUCAS PREMIUM 55AH/ 12V	12	55	229	138	210		METRICA		16,40
	LUCAS PREMIUM 75AH/ 12V	12	75	260	168	210		METRICA		24,00

LUCAS GEL DC

Lucas reference	Definition	V	C20 (Ah)	L (mm)	W (mm)	H (mm)	Layout	Terminal	Hold-down	Weight (kg)
	LUCAS PREMIUM 200AH/ 6V	6	200	306	168	220				30,00
	LUCAS PREMIUM 210AH/ 6V	6	210	260	180	246				29,50
	LUCAS PREMIUM 220AH/ 6V	6	220	306	168	220				31,50
	LUCAS PREMIUM 225AH/ 6V	6	225	243	187	275				30,50
	LUCAS PREMIUM 250AH/ 6V	6	250	260	180	265				34,50
	LUCAS PREMIUM 310AH/ 6V	6	310	295	178	346				46,00
	LUCAS PREMIUM 330AH/ 6V	6	330	295	178	346				46,60
	LUCAS PREMIUM 380AH/ 6V	6	380	295	178	404				55,30
	LUCAS PREMIUM 420AH/ 6V	6	420	295	178	404				56,80
	LUCAS PREMIUM 200AH/ 8V	8	200	260	182	295				38,00
	LUCAS PREMIUM 20AH/ 12V	12	20	181	77	167				6,00
	LUCAS PREMIUM 26AH/ 12V	12	26	166	175	126				8,30
	LUCAS PREMIUM 26AH/ 12V	12	26	165	126	174				8,00
	LUCAS PREMIUM 35AH/ 12V	12	35	196	131	155				10,50
	LUCAS PREMIUM 40AH/ 12V	12	40	198	166	174				14,20
	LUCAS PREMIUM 50AH/ 12V	12	50	198	166	174				14,50
	LUCAS PREMIUM 55AH/ 12V	12	55	229	138	208				16,00
	LUCAS PREMIUM 70AH/ 12V	12	70	350	167	178				23,30
	LUCAS PREMIUM 75AH/ 12V	12	75	260	169	211				25,00
	LUCAS PREMIUM 85AH/ 12V	12	85	260	169	211				26,10
	LUCAS PREMIUM 90AH/ 12V	12	90	307	169	211				28,20
	LUCAS PREMIUM 100AH/ 12V	12	100	307	169	211				30,20
	LUCAS PREMIUM 110AH/ 12V	12	110	331	176	215				33,30
	LUCAS PREMIUM 120AH/ 12V	12	120	407	174	208				39,20
	LUCAS PREMIUM 135AH/ 12V	12	135	341	173	283				40,80
	LUCAS PREMIUM 150AH/ 12V	12	150	484	171	241				45,50
	LUCAS PREMIUM 180AH/ 12V	12	180	532	206	215				56,00
	LUCAS PREMIUM 200AH/ 12V	12	200	532	206	215				58,40
	LUCAS PREMIUM 220AH/ 12V	12	220	522	240	219				65,00
	LUCAS PREMIUM 240AH/ 12V	12	240	520	268	203				71,00
	LUCAS PREMIUM 260AH/ 12V	12	260	520	268	220				77,00

Lucas Premium
Origin CHINA

LITHIUM GOLF

Lucas reference	Definition	V	Capacity (Ah)	L (mm)	W (mm)	H (mm)	Energy Wh	Cycles Number	Terminal	Weight (kg)
	LUCAS PREMIUM 6AH/ 12V	12	6	151	65	96,5	76,8	> 2000		0,86
	LUCAS PREMIUM 12AH/ 12V	12	12	191	99	85	153,6	> 2000		1,50
	LUCAS PREMIUM 18AH/ 12V	12	18	182	76,4	167	230,4	> 2000		2,40
	LUCAS PREMIUM 24AH/ 12V	12	24	180	160	118	307,2	> 2000		3,00
	LUCAS PREMIUM 30AH/ 12V	12	30	195	130	165	384	> 2000		3,70
	LUCAS PREMIUM 50AH/ 12V	12	50	259	167	225	640	> 2000		10,00
	LUCAS PREMIUM 80AH/ 12V	12	80	259	167	225	1024	> 2000		9,50
	LUCAS PREMIUM 105AH/ 12V	12	105	353	175	190	1344	> 2000		11,50
	LUCAS PREMIUM 56AH/ 36V	36	56	385	338	245	2128	> 3500		27,00
	LUCAS PREMIUM 80AH/ 36V	36	80	385	338	245	3040	> 3500		31,00
	LUCAS PREMIUM 106AH/ 36V	36	106	385	338	245	4028	> 3500		34,00
	LUCAS PREMIUM 56AH/ 48V	48	56	460	334	247	2856	> 3500		33,00
	LUCAS PREMIUM 106AH/ 48V	48	106	460	334	247	5406	> 3500		43,20
	LUCAS PREMIUM 106AH/ 48V	48	106	585	330	255	5406	> 3500		46,80
	LUCAS PREMIUM 160AH/ 48V	48	160	800	360	232	8160	> 3500		72,00
	LUCAS PREMIUM 160AH/ 48V	48	160	800	320	232	8160	> 3500		75,00
	LUCAS PREMIUM 106AH/ 72V	72	106	587	348	260,5	8056	> 3500		62,00
	LUCAS PREMIUM 106AH/ 72V	72	106	740	320	246	8056	> 3500		72,00
	LUCAS PREMIUM 160AH/ 72V	72	160	960	446	231	12160	> 3500		88,00
	LUCAS PREMIUM 210AH/ 72V	72	210	1135	385	253	15960	> 3500		110,00

LITHIUM FORKLIFT

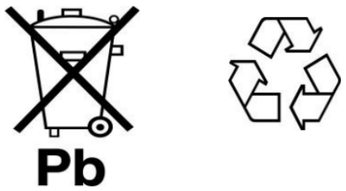
Lucas reference	Definition	V	Capacity (Ah)	L (mm)	W (mm)	H (mm)	Energy Wh	Cycles Number	Terminal	Weight (kg)
	LUCAS PREMIUM 160AH/ 24V	24	160	560	194	510	4096	> 3500		60,00
	LUCAS PREMIUM 210AH/ 24V	24	210	750	180	505	5376	> 3500		65,00
	LUCAS PREMIUM 280AH/ 24V	24	280	810	212	665	7168	> 3500		272,00
	LUCAS PREMIUM 315AH/ 24V	24	315	750	320	500	8064	> 3500		145,00
	LUCAS PREMIUM 210AH/ 36V	36	210	600	350	600	8064	> 3500		180,00
	LUCAS PREMIUM 420AH/ 36V	36	420	950	400	600	16128	> 3500		300,00
	LUCAS PREMIUM 580AH/ 36V	36	580	1000	700	600	22272	> 3500		320,00
	LUCAS PREMIUM 210AH/ 48V	48	210	960	375	550	10752	> 3500		200,00
	LUCAS PREMIUM 280AH/ 48V	48	280	956	370	570	14336	> 3500		510,00
	LUCAS PREMIUM 315AH/ 48V	48	315	822	732	620	16128	> 3500		960,00
	LUCAS PREMIUM 320AH/ 48V	48	320	805	557	417	16384	> 3500		185,00
	LUCAS PREMIUM 420AH/ 48V	48	420	988	809	635	21504	> 3500		386,00
	LUCAS PREMIUM 560AH/ 48V	48	560	1005	863	595	28672	> 3500		540,00
	LUCAS PREMIUM 420AH/ 80V	80	420	815	740	635	34944	> 3500		435,00
	LUCAS PREMIUM 560AH/ 80V	80	560	1005	765	650	46592	> 3500		455,00

COSHH Information

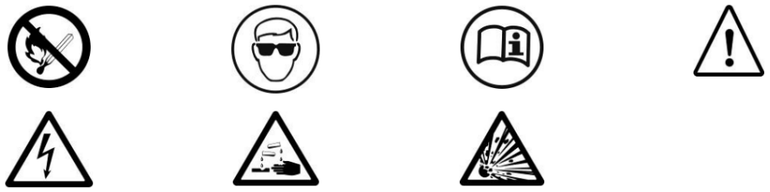
Hazards Identification
No hazards occur during the normal operation of a lead acid battery as it is described in the instructions for use that are provided with the battery. Lead-acid batteries have three significant characteristics:
· They contain an electrolyte which contains dilute sulphuric acid. 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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