



# At the speed of life.

Light vehicle battery solutions for every demand.



**ENERGIZING  
A NEW  
WORLD**

Creating the future - the Exide way:



Innovation



Reliability



Sustainability



High Performance

**EXIDE**  
TECHNOLOGIES

[exidegroup.com](http://exidegroup.com)

# The world is changing. That's why we are energizing a new world.

For Exide, now is the time to release new energies to move even more into the future. Our new alignment “**Energizing a new world**” is designed to convey this aspiration. We want to bring change to life, face challenges together with our partners, and develop solutions for today and tomorrow. **Let's create the future – the Exide way:**



**Innovation** is the engine of technology leadership. That's why we are constantly evolving, remaining self-critical, and continue to inspire our customers.



**Sustainability** is an important part of our responsibility. That's why we rely on renewable energies and intelligent recycling concepts.



**Reliability** defines our business. This applies to our products as well as our innovative development, services, and partnerships. Our responsibility does not end with our products, but starts right there.



**High Performance** is the standard we set for our products and services. All our solutions are best of class. This means our customers are optimally equipped for any task.

## When the demands raise the bar of expectations. We just jump even higher.

### Never stop rethinking.

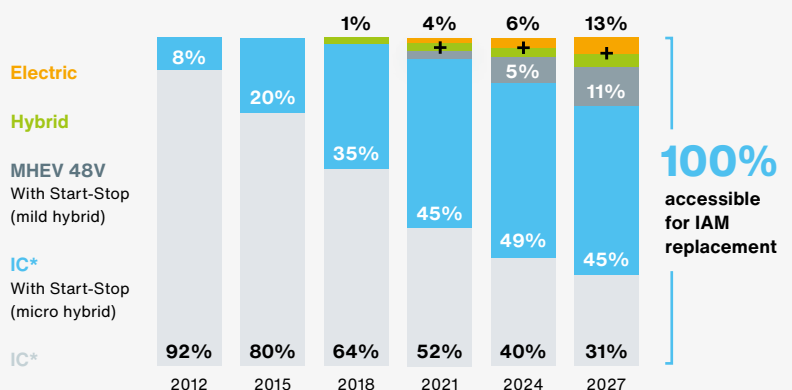
Times change constantly – and there is even one more important constant in our industry: Exide Technologies' aspiration for innovation and pushing things forward. And we prove it with our premium products. We offer one of the largest ranges of diverse batteries for a wide variety of powertrain technologies. Based on expertise in the original equipment business, we are at the forefront of delivering the most advanced solutions. The unparalleled performance in our products allows us to underline our reliability as a leading OE brand. Exide also offers a suite of professional accessories, allowing workshops to provide customers with the highest level of service.

### Exploring new horizons.

The ambition for more sustainability and a greener environment has led to an irreversible trend in the evolution of alternative drive systems, thus reducing fuel consumption and CO<sub>2</sub> emissions. This has resulted in a rapidly increasing number of Start-Stop vehicles, which need all OE-compliant AGM and EFB batteries. The change from conventional to alternative and advanced powertrains, like hybrid or full electric, is experiencing a huge shift. As a result, registrations of electric vehicles are breaking records every year. But all alternative powertrains will need the support of lead-acid batteries, meaning that a new generation is just underway.

### European car parc and changing powertrains.

- In 2021, cars with Start-Stop powertrains accounted for approximately 45% of the total car parc in Europe
- By 2024, the majority (54%) of vehicles in the car parc will feature a Start-Stop system (micro & mild hybrids)
- The number of cars with Start-Stop systems will have risen from 1% to 54% in just 15 years
- By 2027, 13% of the car parc will either be hybrid (FHEV and PHEV) or full electric (BEV), needing 12V batteries for either cranking or auxiliary functions
- **100% of the car parc will still need a 12V battery by 2027**



\*IC = Internal combustion engine

Source: Exide estimation, EU28+EFTA (European Free Trade Association inc: Iceland, Liechtenstein, Switzerland and Norway)

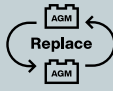
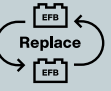











 Start-Stop

 conventional



Feature	AGM	EFB	Formula Xtreme	Formula	Standard
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## Vehicle requirements

Start-Stop powertrain	 Recommended OE replacement	 Recommended OE replacement			
Non Start-Stop powertrain	 Unless specified by vehicle manufacturer	 Extra life for conventional vehicles	 Faster recharge for high equipment level	 Widest range to fit almost 100% of car parc	 Cost effective for older and more basic vehicles
Regenerative braking	████████	███████			
Intensive urban use	████████	███████	███████	███████	███████
Power-hungry equipment	████████	████████	███████	███████	███████

## Battery performance

CCA (cold cranking amperes)	████████	███████	████████	███████	███████
Charge acceptance*	████████	███████	███████	███████	███████
Cycle life	████████	███████	███████	███████	███████
Extra energy**	████████	███████	███████	███████	███████

\* Charge acceptance (in A/Ah)

\*\* Energy throughput during lifetime



Equipment  
**ORIGINAL**  
Manufacturer

**Trusted by leading carmakers.**

Exide has been supplying lead-acid batteries to carmakers for over 100 years. We design the most technically advanced products in the industry, and were the first to introduce Start-Stop technology to the European market in 2004. Carmakers trust the quality of our products and our commitment to excellence in manufacturing.

**Exide works with leading car manufacturers, including:**  
Abarth, Alfa Romeo, Audi, Citroen, Dacia, Ferrari, Fiat, Ford, Hyundai, IVECO, Jaguar, Jeep, Kia, Lancia, Land Rover, Maserati, Mazda, Mitsubishi, Nissan, Opel, Peugeot, Piaggio, Porsche, Renault, Seat, Skoda, Suzuki, Toyota, Volkswagen, Volvo.

**70% of European car brands work with Exide batteries.**

# Fulmen AGM

## For toughest electrical needs of Start-Stop vehicles.

Continuous investments in R&D have allowed Exide to propose the latest innovative AGM batteries from OE to the aftermarket, too. They feature a new innovative framed grid, perfect for advanced Start-Stop systems where the battery needs to be quickly recharged through the energy provided by the regenerative braking system.



### AGM Technology

- High dynamic charge acceptance over battery lifespan
- Higher energy throughput over battery lifespan thanks to new LifeGrid® technology
- Optimized for partial state of charge operations (PSoC)
- Ideal for large cars, SUVs, vans, and vehicles with Start-Stop and power-hungry electrical equipment
- Top-level safety features and absolutely no free acid
- Absorbent glass mat
- Regenerative braking
- Recombinant VRLA (valve regulated)

- Latest generation approved by car manufacturers
- Great car parc coverage from a limited number of SKUs
- Long shelf life
- Designed and built to endure continuous battery discharge and recharge of Start-Stop systems



Typical pattern of State of Charge during a journey with Start-Stop system

**Sealed double security lid** with degassing outlet and flame arrestor

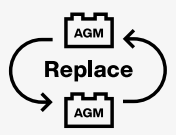
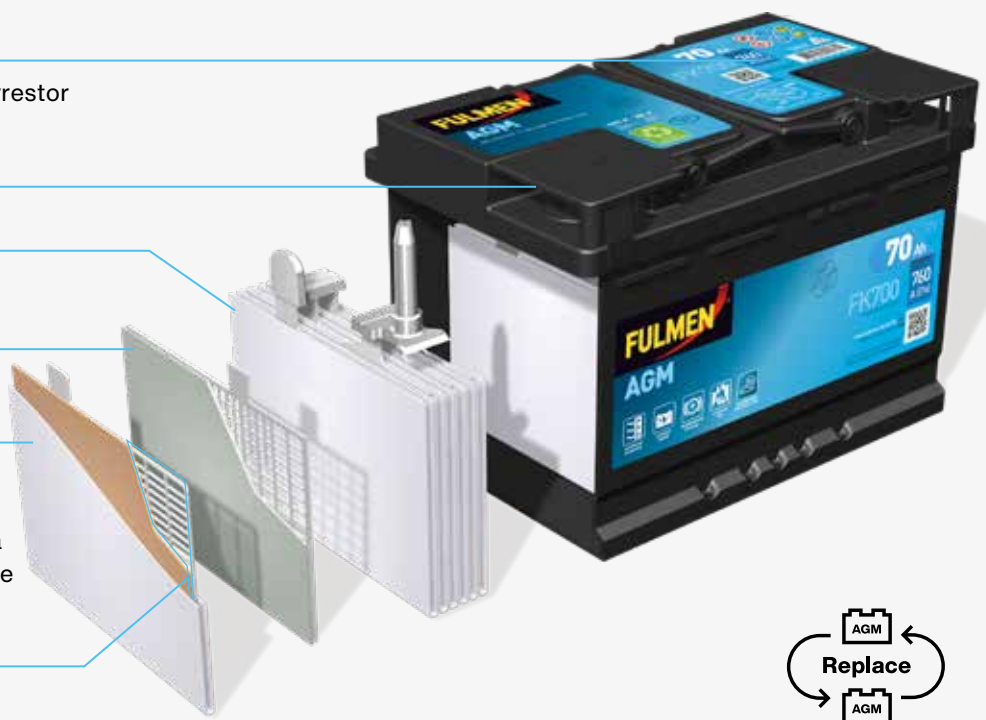
Fulmen unique **valve regulated venting**

**Tall plate group** with high compression

**Negative plate**  
Framed negative plate

**Positive plate**  
New framed grid design with high-tech alloy. The high-capillarity glass mat separator provides extra absorption for maximum electrolyte volume and to avoid stratification.

**A new innovative framed grid**  
Fulmen's new grid design provides consistent power and longer battery life



# Fulmen EFB

## OEM experience for the aftermarket.










First invented by Exide in 2008, EFB batteries have come to play an increasingly crucial role for car manufacturers in order to reduce fuel consumption and emissions. Now Exide brings the latest OE generation to the aftermarket, featuring **Carbon Boost 2.0**.

The new Fulmen EFB battery **supports all vehicles, with and without Start-Stop systems**, with high cycling requirements. When installed in cars with a Start-Stop system, Fulmen's new EFB battery shows an unmatched energy recovery and exceptional dynamic charge acceptance. The battery also benefits from a longer overall lifespan, when installed in cars with conventional powertrain.

Spare  
**ORIGINAL**  
Part



## EFB Technology

-  • High dynamic charge acceptance over battery lifespan
-  • Extra energy and extra life for vehicles with and without Start-Stop systems
-  • Optimised regenerative braking functionality in vehicles with Start-Stop systems – ensuring maximum fuel savings and less CO<sub>2</sub> emissions
-  • High-level safety features
-  • Optimal operation in engine compartment
-  • 3DX grid technology
-  • Latest generation approved by car manufacturers
-  • Great car parc coverage from a limited number of SKUs
-  • Long shelf life

Conventional battery	EFB battery with Carbon Boost 2.0
Charge acceptance	x2
Cycle life	x3
Energy availability	x3

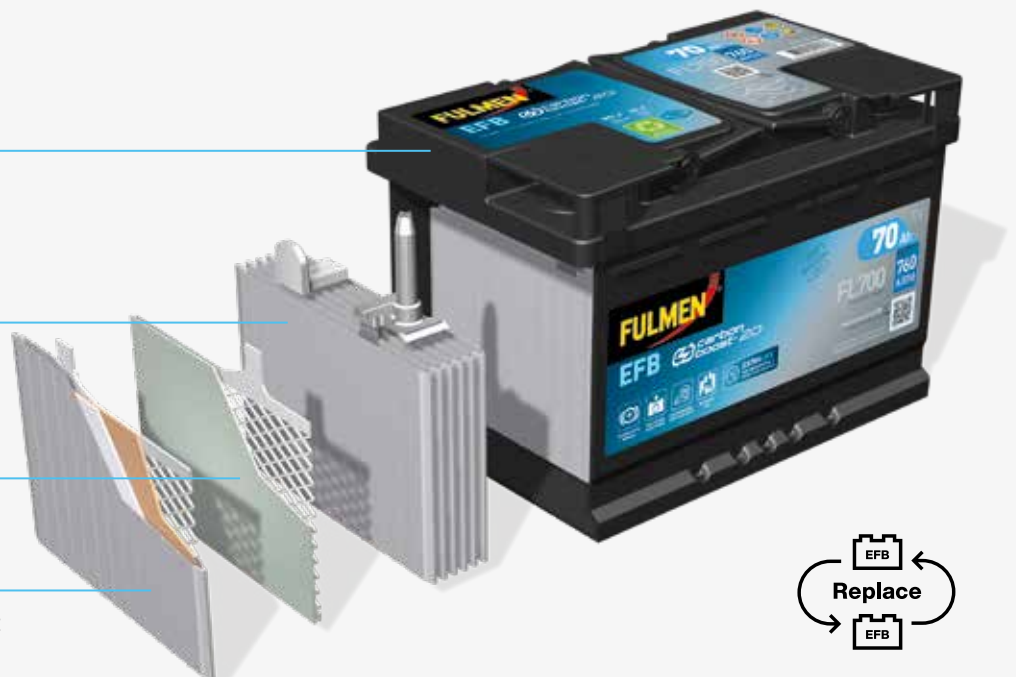
Fulmen EFB offers significant performance advantages over a conventional battery also when fitted into a car without Start-Stop system.

**Spill-proof security lid**  
with flame arrestor

**Plate group**  
with medium compression

**Negative plate**  
3DX grid with Carbon Boost 2.0






**Positive plate**  
3DX grid and advanced glass mat retainer covering active mass.



## Fulmen Start-Stop Auxiliary

Auxiliary batteries power the electrical equipment in certain cars, as a complement to the main starter battery.



-  • Absorbent glass mat
-  • High cycle life
-  • Long shelf life
-  • VRLA (valve regulated) for leak-proof security
-  • Original equipment experience inside



**Installation advice on top labels – always equipped safely.**

Exide is the first in the market to add a distinctive 'CAUTION' label on its Formula Xtreme, Formula, and Standard standard flooded batteries to ensure that they are not installed into cars that are equipped with a Start-Stop system.



**Battery replacement will be a breeze.**






Our Online Battery Finder makes battery replacements safer, quicker, and more cost-efficient thanks to its newly integrated battery replacement instructions. Once the correct battery is identified, the tool guides mechanics to the battery location, estimates the approximate labour time, and provides helpful information on the installation, and registration process.



Use the app or visit our website to see the Online Battery Finder: [exidegroup.com/eu/en/brand/fulmen](http://exidegroup.com/eu/en/brand/fulmen)





## Fulmen Formula



-  • Updated top label – 'CAUTION' label to avoid conventional batteries being installed in Start-Stop vehicles
-  • 15% extra starting power
-  • All-round battery for standard use
-  • 3DX grid technology
-  • Original equipment experience inside

## Fulmen Standard



-  • Updated top label – 'CAUTION' label to avoid conventional batteries being installed in Start-Stop vehicles
-  • Economy solution
-  • Ideal for cars with basic power needs
-  • 3DX grid technology

# Fulmen Formula Xtreme

The latest Formula Xtreme with Carbon Boost 2.0 now recharges up to two times faster compared to other conventional batteries, thanks to Exide's proprietary application of carbon additives on the negative plates. While battery failure remains the number one cause of car breakdowns\*, fast recharging considerably reduces the risk of breakdowns by helping the battery retain a healthy state of charge for longer.



The Formula Xtreme Carbon Boost battery is designed to withstand extreme temperature, power-hungry electrical equipment, and intensive urban driving.



\*Source: ADAC 2019



- New recycled plastic components to reduce CO<sub>2</sub> emissions by over 2,700 tons and to save 8 million liters of water and 1.2 million liters of crude oil every year



- 30% extra starting power



- Ideal for highly equipped cars with powerful engines and demanding electrical needs



- Recharges up to 2 times faster compared to other conventional batteries



- Ideal for extreme weather and urban driving conditions



- Latest plate design for greater robustness and increased resistance to high temperatures



- 3DX grid technology



- Updated top label – 'CAUTION' label to prevent conventional batteries being installed in Start-Stop vehicles



- Original equipment experience inside
- Meets OE requirements

**New top label** with 'CAUTION' message

**Eco-friendly recycled plastic components**

**Negative plate**  
3DX grid with Carbon Boost 2.0

**Positive plate**  
3DX grid enveloped with high-performance polyethylene separator



## Good to know!

**Cold weather significantly impairs battery performance.** But it is during the cold season that more energy is needed for light and heating. **Hot weather accelerates self-discharge, grid corrosion and active material shedding.** It could lead to shorter service life if batteries are not reinforced for extreme climates. In urban environments the engine is often turned off or idles, and the electrical system may consume more power than the alternator can supply. This puts extra pressure on the battery. **Power-hungry electrical equipment,** such as media players or navigation equipment, put extra pressure on the battery.

# Carbon Boost 2.0

Carbon Boost® is Exide's unique recipe for carbon additives on the negative plates that was first developed for Exide's Start-Stop OEM batteries. Continuous investments in R&D, tighter emissions regulations, and the increasing demands from the OEMs in regards to charge acceptance and energy availability have lead to the development of the new Carbon Boost 2.0.



**Without Carbon Boost®**  
The plates are covered with sulfate



**With Carbon Boost®**  
Sulfate is reduced due to Carbon Boost technology

Carbon Boost 2.0 uses improved carbon additives, combining an optimized surface structure with significantly better conductivity. This enables a better current flow within the battery, resulting in unmatched charge acceptance.

It also helps to dissolve the lead sulfate deposits that usually consolidate on a battery's discharged negative plates, reducing its ability to charge back efficiently.

## Fulmen Formula Xtreme



Carbon Boost was first introduced in the aftermarket Formula Xtreme range in 2014. The new Carbon Boost 2.0. brings performance to the next level.



- Faster recharging (2x times faster than other conventional batteries)
- Longer lifespan (higher average state-of-charge throughout battery life)

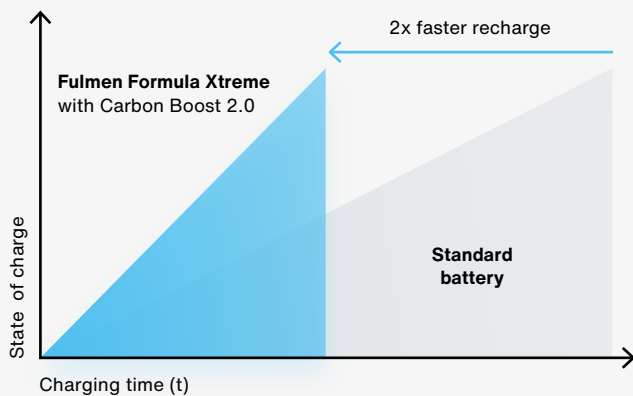
## Fulmen EFB



Fulmen's new EFB batteries feature Carbon Boost 2.0. with exceptional dynamic charge acceptance, offering important benefits for drivers, especially in intensive urban driving conditions.



- 75% more energy recovered in the same amount of time compared to older EFB
- Optimized regenerative braking functionality – ensuring fuel savings and reduction of CO<sub>2</sub> emissions
- Longer overall lifespan



Lab tests show that it takes significantly less time to recharge an Fulmen Formula Xtreme Carbon Boost battery than a standard battery under the same conditions.



### WLTP Worldwide Harmonised Light Vehicle Test Procedure

Strict new EU regulations have imposed a CO<sub>2</sub> emissions limit of 95g/km in vehicle homologation testing by 2021\*. The WLTP test measures how much battery capacity is depleted in testing and converts it to equivalent fuel consumed and CO<sub>2</sub> emitted. The battery should retain a high percentage of its initial capacity to help car makers avoid being penalized when passing certain thresholds. Since the recharging process accounts for only 8% of test duration, the battery needs to achieve the highest possible energy recovery in a short time. With Carbon Boost 2.0, the dynamic charge acceptance of EFB batteries is maximized:

- The battery accepts 75% higher average recharging current than previous generation
- It preserves a higher capacity at the end of the test (2.5x less state-of-charge loss compared to previous generations)

\*Fleet average/bonus included



# Innovative workshop tools.

Exide has a comprehensive range of accessories and support. We help you test, charge, select, replace, and recycle batteries – everything workshops need to keep work in house, provide quality service, and grow profitability.

## Battery Tester EBT-965P and EBTP Battery Tester program

Our advanced and easy-to-use next-generation tester is designed for the most reliable diagnostics of any make or type of battery. It enables preventative maintenance and ensures maximum customer satisfaction. Previous testers only measured the conductance, but the new EBT-965P also features Conductance Profiling™, including battery health and the remaining available energy in the test results.




### Standard Testers

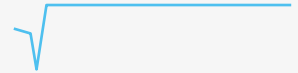
Conductance





Exide EBT-965P Tester  
Conductance Profiling™



Cranking Capability 



Energy Availability  



Our **EBTP Web app** lets workshops analyse battery test results and give customers battery replacement options – all within five minutes. Discover the EBTP on [ebtp.exidegroup.com/login](http://ebtp.exidegroup.com/login)

## Battery Charger

Exide chargers can be used on cars, boats, motorcycles, trucks, and motorhomes and are ideal for both consumers and professionals alike.

Workshops use the device to ensure customers leave with a fully charged battery every time.



## BRT-12 Battery Replacement Tool

Our Battery Replacement Tool comes pre-loaded with battery codes, and makes it easy to replace batteries and clear faults from the dashboard.



## Battery Finder App

Search by car model or registration number to quickly find the right battery on the go.



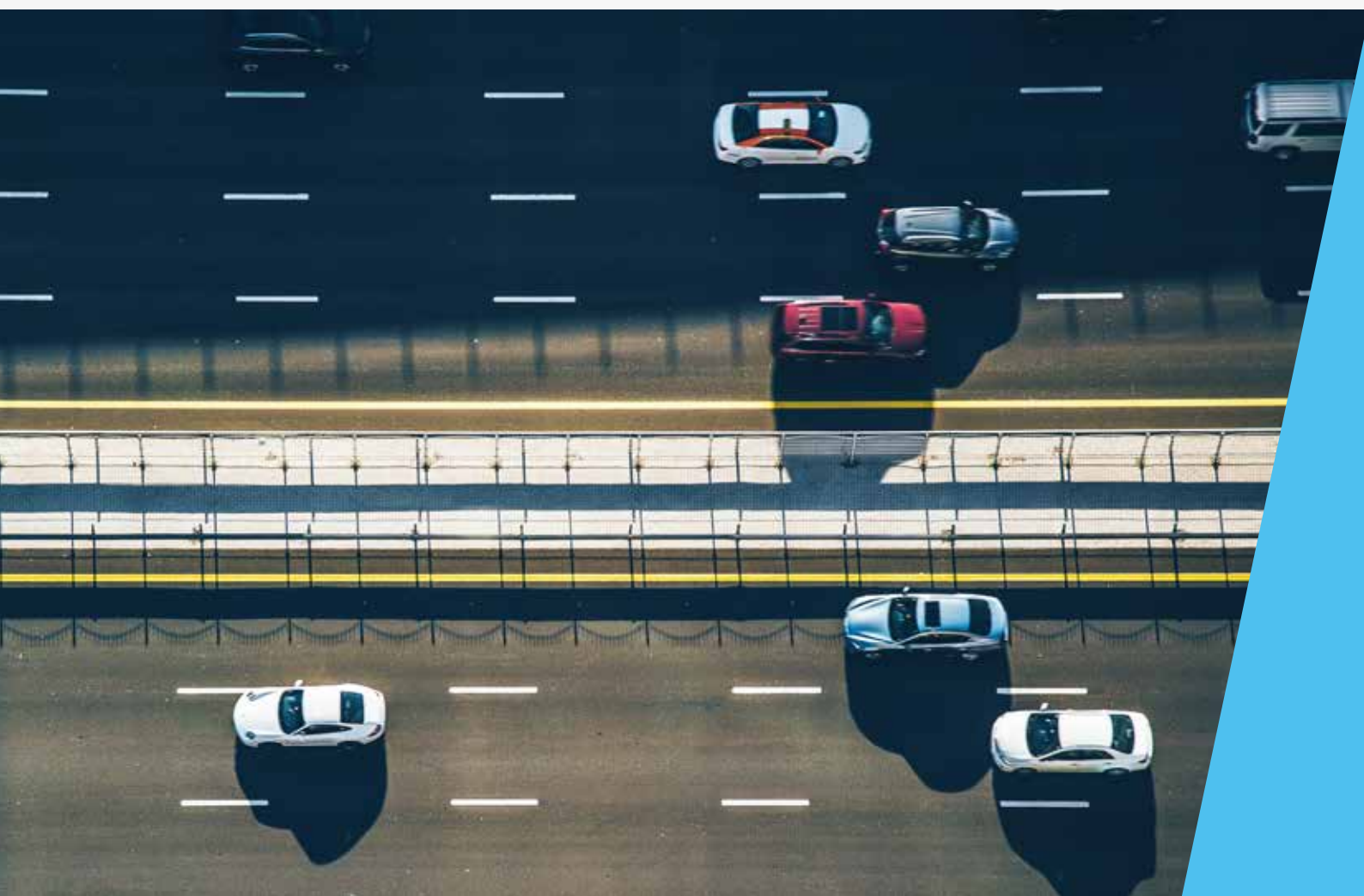
## Battery Finder Online

The Fulmen Battery Finder tool helps guide mechanics through the replacement process for passenger cars, including hybrid and electric, and light commercial vehicles. Exide offers accessible and detailed instructions on battery location, labour time, precise guidelines on how to replace the battery, and much more!



[exidegroup.com/eu/en/brand/fulmen](http://exidegroup.com/eu/en/brand/fulmen)

**Especially when  
you go full speed  
ahead.**



**It is enormously  
important to  
have someone  
by your side**



# Batteries that every vehicle is keen on.

## And some are even more electrified.

In any modern vehicle, a 12 volt power source is essential for a number of devices and uses:

- For **all electrical vehicles types**, to guarantee the functioning of driver assistance systems (ADAS), lighting, navigation, heating and conditioning, door locking, and more.
- For **micro hybrid and mild hybrid**, to crank the internal combustion engine (ICE) at low temperatures.
- For **BEV** (battery electrical vehicles), to activate and connect the high-voltage battery to the board net and the electric engine.

Feature	Start-Stop Micro hybrid	Mild hybrid	Full hybrid	Plug-in hybrid	Electric	
<b>Propulsion</b>	Internal combustion engine	Internal combustion engine	Internal combustion engine + electric drive (10-30km range)	Internal combustion engine + electric drive (50-100km range)	Electric drive (200-500km range)	
<b>Fuel</b>	Petrol/diesel	Petrol/diesel	Petrol	Petrol + electric	Electric	
<b>(Hybrid) type</b>	Micro	MHEV (mild)	FHEV	PHEV	BEV	
<b>Battery type &amp; technology (function)</b>	Main	12V AGM or EFB (cold cranking)	12V AGM or EFB (cold cranking) 48V Li-Ion (warm cranking + boosting)	150-300V Li-Ion or NiMh (electric drive & ICE boosting)	200-400V Li-Ion (electric drive & ICE boosting)	500-800V Li-Ion (electric drive) 1 or 2 12V AGM or Li-Ion (auxiliary)
	Optional	12V AGM (auxiliary)	12V AGM or Li-Ion (auxiliary)	12V AGM or Li-Ion (crank/auxiliary) or 12V AGM or EFB (cold cranking)	12V AGM or Li-Ion (crank/auxiliary) or 12V AGM or EFB (cold cranking)	
<b>Battery size</b>	Main	12V AGM or EFB 50-70Ah	12V AGM or EFB 60-90Ah 48V Li-Ion 0.5-1 kWh	150-300V NiMh or Li-Ion 2-4 kWh 12V auxiliary 20-30Ah	200-400V Li-Ion 8-20 kWh 12V auxiliary 20-30Ah	500-800V Li-Ion 40-90 kWh 12V auxiliary 30-45Ah
	Optional	12V auxiliary 10-15Ah	12V auxiliary 10-15Ah	12V AGM or EFB 60-70Ah	12V AGM or EFB 60-70Ah	
<b>Example</b>	Fiat Panda S&S Volvo XC60	Mercedes C200d Mild Hybrid BMW 320d Mild Hybrid	Toyota Yaris Hybrid Suzuki Vitara Strong Hybrid	Toyota Prius Plug-in Jeep Renegade 4xe	Tesla Model 3	
<b>Number of potential 12V replacement batteries</b>						

# Supporting the change of tomorrow.

A **12V lead-acid battery** is a reliable source of power for electric vehicles. It provides the necessary energy to activate the safety relay and connect the high-voltage battery to the board net and the electric engine.

When the lead-acid battery is discharged, the car cannot be started. It keeps the entire electrical system running before the traction battery is connected and while the electric car is parked. This includes the security system, the keyless system sensors, the clock, and the memory in many of the car's computer systems.

Once on the road, the **Auxiliary battery** is the crucial back-up item to support relevant features such as power steering, brake boosting, and door locks in case of a breakdown of the main power unit.

All these exceptional features are provided within a highly safe and reliable setup with wide operational temperature windows compared to lithium-ion batteries.

When the battery comes to the end of its useful life, the entire battery can be **recycled up to almost 100%**, as it is part of a closed-loop manufacturing process and therefore has a positive effect on the carbon footprint.

## Battery recommendations for the most popular BEV (battery electrical vehicles) models.

Best-fit options for selected full-electric vehicles. Please use our Online Battery Finder to discover more models and other available manufacturers.



Brand	Model	Model year from	AGM	EFB	Aux	Formula Xtreme	Formula	Standard
Audi	e-Tron	2018/09	FK700					
BMW	i3	2013/08			AGM12-23			
Hyundai	Kona	2018/04		FL550		FA530	FB500	
Hyundai	Ioniq	2016/03				FA406	FB356	
Jaguar	I-Pace	2018/02				FA640	FB620	
Kia	Niro	2018/08		FL550		FA530	FB504, FB500	
Kia	Soul II	2014/09					FB504	
Mercedes-Benz	EQC	2019/05	FK700					
Nissan	NV200/Evalia Bus, Van	2014/07		FL550		FA530	FB500	
Nissan	Leaf	2010/11		FL550		FA456, FA530	FB454, FB500	
Peugeot	208 II	2019/06		FL600		FA640	FB620	
Renault	Kangoo	2011/10		FL700		FA770	FB740	
Renault	Zoe	2012/06		FL550		FA530	FB500	
Smart	fortwo	2010/12		FL550, FL600		FA530, FA640	FB440, FB620	
Smart	forfour	2017/05		FL600		FA640	FB620	
Tesla	Model 3	2017/01				FA456	FB454	
Tesla	Model X	2016/10					FB357	
VW	Golf VII	2014/03		FL600				
VW	ID.3	2019/11		FL550		FA530	FB500	
VW	Up	2013/07		FL550		FA530	FB440, FB500	FC400, FC440

# Responsible manufacturer with recycling system.

**100%**

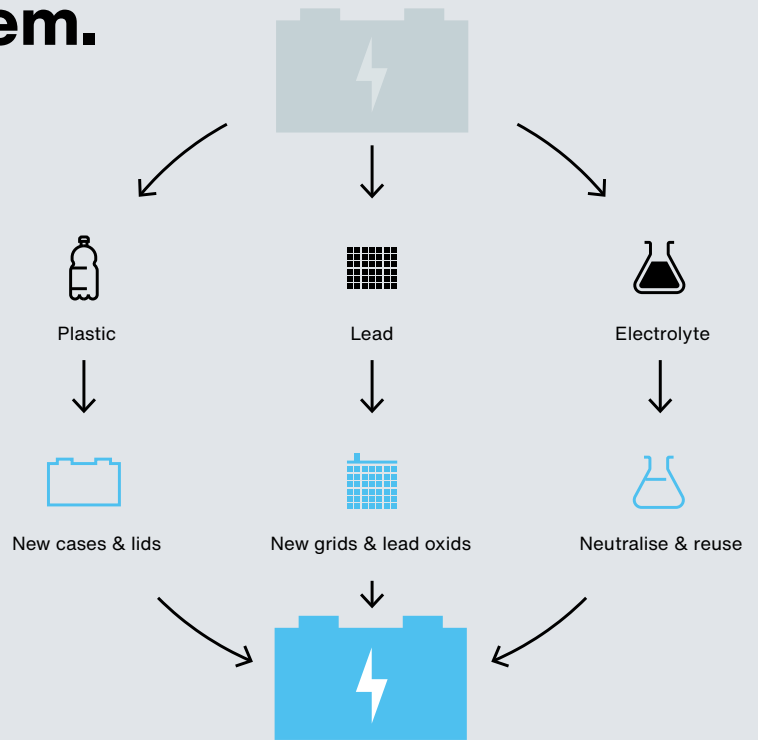
of a lead battery can be recycled

**99%**

of all automotive lead batteries are recycled in Europe

**3**

Exide recycling facilities in Europe



## Fulmen light vehicle batteries type list



Fulmen	Performance		Dimensions			Technical characteristics			
Code	Capacity Ah	CCA A (en)	Container	L (mm)	H (mm)	W (mm)	Hold down	Polarity	Terminal

### AGM

FK508	50	800	G34	260	173	206	B7	ETN 9	1
FK600	60	680	L02	242	175	190	B13	ETN 0	1
FK700	70	760	L03	278	175	190	B13	ETN 0	1
FK800	80	800	L04	315	175	190	B13	ETN 0	1
FK950	95	850	L05	353	175	190	B13	ETN 0	1
FK1050	105	950	L06	392	175	190	B13	ETN 0	1

### EFB

FL550	55	540	L01	207	175	190	B13	ETN 0	1
FL600	60	640	L02	242	175	190	B13	ETN 0	1
FL604	60	520	D23	230	173	222	B0	ETN 0	1
FL605	60	520	D23	230	173	222	B0	ETN 1	1
FL652	65	650	LB3	278	175	175	B13	ETN 0	1
FL700	70	760	L03	278	175	190	B13	ETN 0	1
FL752	75	730	LB4	315	175	175	B13	ETN 0	1
FL754	75	750	D26	270	173	222	B0	ETN 0	1
FL800	80	800	L04	315	175	190	B13	ETN 0	1
FL954	95	800	D31	306	173	222	Korean B1	ETN 0	1
FL955	95	800	D31	306	173	222	Korean B1	ETN 1	1
FL1000	100	900	L05	353	175	190	B13	ETN 0	1
FL1050	105	950	L06	392	175	190	B13	ETN 0	1

### Auxiliary

FK091	9	120	C54	150	90	105	B0	ETN 1	M12
FK111	11	150	C55	150	90	130	B0	ETN 1	M04
FK131	13	200	C56	150	90	145	B0	ETN 1	M04
FK143	14	80	C76	150	100	100	B0	ETN 3	Screwed/lug
FK151	15	200	C56	150	90	145	B0	ETN 1	Small taper post



Fulmen	Performance		Dimensions			Technical characteristics			
Code	Capacity Ah	CCA A (en)	Container	L (mm)	H (mm)	W (mm)	Hold down	Polarity	Terminal

### Formula Xtreme

FA406	40	350	B19	187	136	220	B1	ETN 0	JIS taper post + adapter
FA456	45	390	B24	237	136	227	B1	ETN 0	3 + adapter
FA472	47	450	LB1	207	175	175	B13	ETN 0	1
FA530	53	540	L01	207	175	190	B13	ETN 0	1
FA601	60	600	L02	242	175	190	B13	ETN 1	1
FA612	61	600	LB2	242	175	175	B13	ETN 0	1
FA640	64	640	L02	242	175	190	B13	ETN 0	1
FA654	65	580	D23	230	173	222	Korean B1	ETN 0	1
FA680	68	650	S68	277	175	190	B13/Adapteur	ETN 0	1
FA681	68	650	S68	277	175	190	B13/Adapteur	ETN 1	1
FA722	72	720	LB3	278	175	175	B13	ETN 0	1
FA754	75	630	D26	270	173	222	Korean B1+B6	ETN 0	1
FA755	75	630	D26	270	173	222	Korean B1+B6	ETN1	1
FA770	77	760	L03	278	175	190	B13	ETN 0	1
FA852	85	800	LB4	315	175	175	B13	ETN 0	1
FA900	90	720	L04	315	175	190	B13	ETN 0	1
FA954	95	800	D31	306	173	222	Korean B1	ETN 0	1
FA955	95	800	D31	306	173	222	Korean B1	ETN 1	1
FA1000	100	900	L05	353	175	190	B13	ETN 0	1
FA1050	105	850	LH4	315	175	205	B13	ETN 0	1



### Formula

FB320	32	270	E01	178	135	225	B1	ETN 0	1
FB356	35	240	B19	187	127	220	B0	ETN 0	3
FB356A	35	240	B19	187	136	220	Korean B1 Long	ETN 0	3
FB357	35	240	B19	187	127	220	B0	ETN 1	3
FB440	44	400	L00	175	175	190	B13	ETN 0	1
FB442	44	420	LB1	207	175	175	B13	ETN 0	1
FB450	45	330	E02	220	135	225	B1	ETN 0	1
FB451	45	330	E02	220	135	225	B1	ETN 1	1
FB454	45	330	B24	237	127	227	B0	ETN 0	1
FB455	45	330	B24	237	127	227	B0	ETN 1	1
FB456	45	330	B24	237	127	227	B0	ETN 0	3
FB457	45	330	B24	237	127	227	B0	ETN 1	3
FB500	50	450	L01	207	175	190	B13	ETN 0	1
FB501	50	450	L01	207	175	190	B13	ETN 1	1
FB504	50	360	D20	200	173	222	Korean B1	ETN 0	1
FB505	50	360	D20	200	173	222	Korean B1	ETN 1	1
FB558	55	620	575	230	180	186	B7	ETN 1	SAE S side Terminal 3/8"
FB602	60	540	LB2	242	175	175	B13	ETN 0	1
FB604	60	480	D23	230	173	222	Korean B1	ETN 0	1
FB605	60	480	D23	230	173	222	Korean B1	ETN 1	1
FB620	62	540	L02	242	175	190	B13	ETN 0	1
FB621	62	540	L02	242	175	190	B13	ETN 1	1
FB704	70	540	D26	270	173	222	Korean B1+B6	ETN 0	1
FB705	70	540	D26	270	173	222	Korean B1+B6	ETN 1	1
FB708	70	740	G78	260	180	186	B7	ETN 1	SAE S side Terminal 3/8"
FB712	71	670	LB3	278	175	175	B13	ETN 0	1
FB740	74	680	L03	278	175	190	B13	ETN 0	1
FB741	74	680	L03	278	175	190	B13	ETN 1	1
FB800	80	640	L04	315	175	190	B13	ETN 0	1
FB802	80	700	LB4	315	175	175	B13	ETN 0	1
FB852	85	760	LB5	353	175	175	B13	ETN 0	1
FB858	85	800	G65	306	192	192	B1	ETN 1	EN taper post
FB950	95	800	L05	353	175	190	B13	ETN 0	1
FB954	95	760	D31	306	173	222	Korean B1	ETN 0	1
FB955	95	760	D31	306	173	222	Korean B1	ETN 1	1
FB1000	100	720	LH4	315	175	205	B13	ETN 0	1
FB1100	110	850	L06	392	175	190	B13	ETN 0	1



### Standard

FC400	40	320	L00	175	175	190	B13	ETN 0	1
FC412	41	370	LB1	207	175	175	B13	ETN 0	1
FC440	44	360	L01	207	175	190	B13	ETN 0	1
FC542	54	500	LB2	242	175	175	B13	ETN 0	1
FC550	55	460	L02	242	175	190	B13	ETN 0	1
FC605	60	440	D26	270	173	222	Korean B1+B6	ETN 1	1
FC652	65	540	LB3	278	175	175	B13	ETN 0	1
FC700	70	640	L03	278	175	190	B13	ETN 0	1
FC900	90	720	L05	353	175	190	B13	ETN 0	1
FC904	90	680	D31	306	173	222	Korean B1	ETN 0	1
FC905	90	680	D31	306	173	222	Korean B1	ETN 1	1

# Energy that goes beyond.



- Transportation plant
- Industrial plant
- R&D facility
- Recycling
- Global HQ
- Principle sales offices  
+ sales offices and distribution centers across the world



Subject to alteration  
XXXXXXXXXXXXXXXXXXXX

<p>All manufacturing plants <b>ISO 9001</b> certified</p>	<p>All automotive plants <b>IATF 16949</b> certified</p>	<p>All manufacturing plants <b>ISO 14001</b> certified</p>	<p>All manufacturing plants <b>ISO 50001</b> certified</p>	<p>Most manufacturing plants <b>ISO 45001</b> certified</p>
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