The shortcut to success.

DETA

Battery solutions for commercial vehicles.

















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.



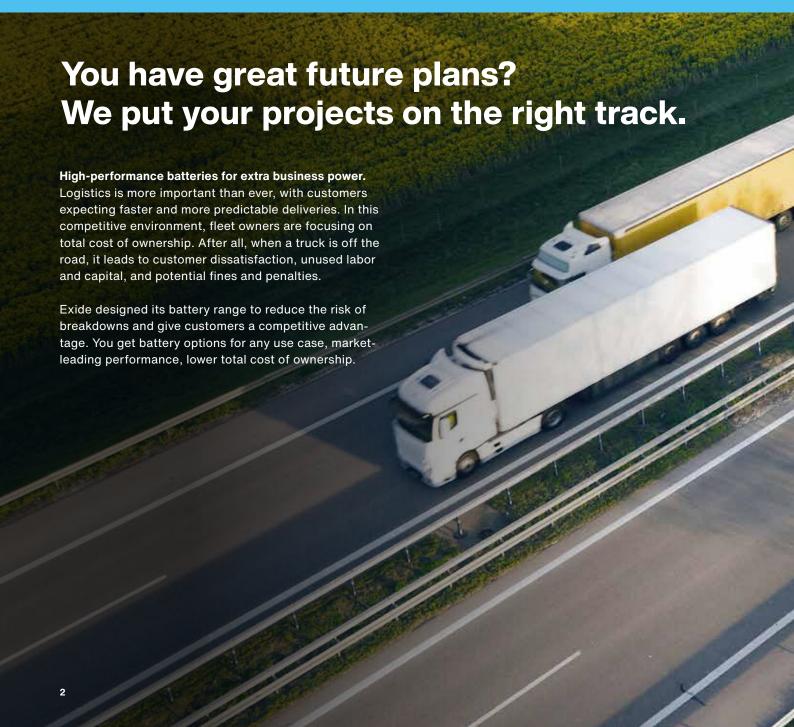
Sustainability is an important part of our responsibility. That's why we rely on renewable energies and intelligent recycling concepts.



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.







There are numerous challenges.

And we have the right battery for each one.

As a true expert in OE batteries, Exide helps you select the right battery. For fleet owners and installers alike, it is vital to make the right choice for the conditions of use. Three important criteria to consider in battery performance are vibration resistance, cycling endurance, and cranking power.

Three main factors when selecting the right battery.



V V +



Vibration resistance

For trucks with rear-chassis battery installations (e.g. Euro 5/Euro 6 trucks), robust and highly vibration-resistant batteries are mandatory to avoid breakdowns. Vibration resistance is also required for any vehicle operating on bad roads or rough terrain.

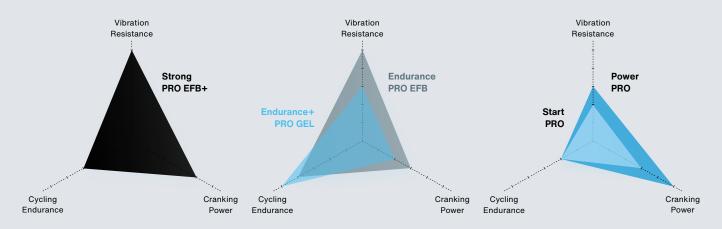
Cycling endurance

High cycling endurance is important in batteries for long-haul trucks with life on-board, commercial vehicles doing intensive urban deliveries, and any commercial vehicle with extensive energy requirements. This maximizes battery lifespan and ensures a safe battery start.

Cranking power

High cranking power allows for engine starts in cold climates and is particularly required by many agriculture and construction vehicles with reliable starting power needs.

The perfect battery for every need.



Range overview and features.

Maintenance



8

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Battery recommendation by vehicle type & application.

Type of vehicles	Application	Strong PRO EFB+	Endurance PRO EFB	Endurance+ PRO GEL	Power PRO	PowerPRO Agri & Construction	Start PRO
Long-haul modern trucks, standard trucks	Rear-chassis installation/ rough terrain, high vibrations	\otimes	⊘ ¹				
Express delivery (lifters), city bus	Power-hungry equipment, deep cycling applications	\otimes		⊘ ²			
DOJ Long-haul modern trucks	Overnight stop/ hotel function	\otimes	\bigcirc ¹				
Standard trucks or vehicles with large/highly compressed engines	Extreme climate and/or high CCA requirements				\otimes		
Tractors, construction machines	Special vehicles					⊘ ³	
Standard trucks	Standard requirements/ older vehicle						⊘ ³

Please top up the battery with distilled water if needed.
 The charging system must be compatible with Sb/Ca alloy.
 If these conditions are not met, choose the Strong PRO EFB+.

Smart tools & accessories

Exide Charger WSC720

Exide WSC720 is designed to meet the growing needs of garages. It comes with the latest technology, including a temperature sensor to optimize charging performance and specific charging curves for AGM, GEL, and conventional. This ensures an excellent charge each time. WSC720 is suitable for batteries from 40–500 Ah, and is ideal for the challenges of a modern garage.



Battery Finder Online & App

Best-in-class fitment information for all types of commercial vehicles. Find the right battery online at exidegroup.com or onthe-go with our Exide Battery Finder app.







² Endurance+ PRO GEL requires charging voltage limitation to max 14.4V. If not compatible, choose the **Strong PRO EFB+.**

³ Top up with distilled water when needed (depending on battery model)

StrongPRO EFB+

Strong, stronger, EFB+.

Deta's StrongPRO battery range is now stronger than ever. A new carbon-based formula of negative active mass enhances the rechargeability and charge acceptance of the StrongPRO EFB+ battery. Additionally, the HVR® (high-vibration-resistant) technology enables StrongPRO EFB+ to pass the extreme vibration tests under the new European V4 standard (EN 50342-1:2015).



A more robust and more lasting battery means reduced total service cost for fleet owners and truck drivers, allowing less replacements over the vehicle's service life and minimized risk of unexpected and premature battery failure.



Benefits:



Better rechargeability and charge acceptance than previous generation StrongPRO



Better control over gassing and stronger anti-stratification effect



 Extremely robust – with HVR° technology, meeting V4 requirements



 Up to 70% savings on TCO within 2 years period when compared with standard batteries



· Maximum starting reliability after overnight stay



OE experience inside



· First class safety features



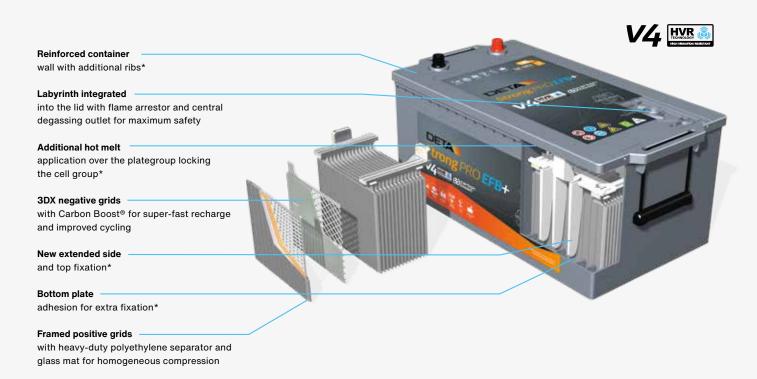
Maintenance free - no topping up



Recommended type of vehicles /

use conditions:

Long-haul modern/standard trucks with rear-chassis installations and/or hotel functions, express delivery, and city bus. Ideal for vehicle running on rough terrain, with power-hungry equipment and deep cycling applications.



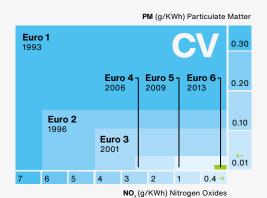
Latest generation of Deta's leading HVR design, meeting V4 requirements (EN 50342-1:2015)

HVR® Technology

New features in the robust battery design.

Several economic factors (higher fuel costs, higher road taxes, higher toll & parking charges, and higher charges to enter low emission zones) have led fleet owners to upgrade by purchasing new Euro 5 or Euro 6 vehicles, thus reducing particulate matter and NOx emissions. Many Euro 5/Euro 6 vehicles have a new chassis layout to integrate the Selective Catalytic Reduction (SCR) system and AdBlue tank, leading truck manufacturers to move batteries into the rear-chassis position.

Emission standards as defined by EU directives





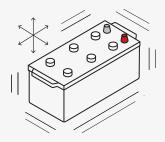


New challenges, new solution.

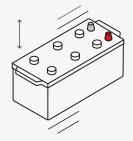
The lifespan of ordinary batteries is greatly reduced by higher vibrations at the rear of the chassis of the vehicle. Exide worked with truck manufacturers to develop the new High Vibration Resistant (HVR®) battery in the market, one of the first to meet the new V4* vibration test.

HVR guarantees a longer battery lifespan even when installed in the rear chassis of a truck.

* EN50342-1



New three-axis test
HVR technology allows Exide
batteries to pass the strict V4*
vibration test, which uses three-axis
motion simulating real-life conditions.



Single-axis test
The V1-3 tests used
single-axis vibration only.

The Carbon Boost® Effect

Exide's smart electrochemical solution for longer battery life.

Early battery failures are common in commercial vehicles, caused by exposure to deep discharge conditions. Challenges to the battery include frequent starting and stopping for urban deliveries, and overnight heating and lighting for long-haul trucks. This strain leads to sulphation and acid stratification, damaging battery lifespan.

With Exide Carbon Boost®, unique carbon additives increase the speed at which sulphate particles dissolve. This leads to faster recharging, protection from sulphation and less stratification.

The carbon additives also promote controlled gassing during recharging, which keeps the electrolyte mixed and further reduces stratification.

The benefits of Carbon Boost:

- · Improved charge acceptance
- · Faster recharging
- Reduced acid stratification
- Enhanced cycling endurance

Sulphation: Lead sulphate particles progressively cover the negative plates. This makes recharging less efficient, because energy is used to dissolve the lead sulphate.



Without Carbon Boost®
The plates are covered with sulfate



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

Acid stratification: Sulphate particles turn into sulphuric acid during charging. This is heavier than the electrolyte, so it sinks to the bottom, creating a range of negative effects, including reduced capacity.



Without Carbon Boost® Sulphuric acid sinks to the bottom of the cell



With Carbon Boost®
Controlled gassing mixes the electrolyte and reduces stratification



EndurancePRO EFB

As indestructible as our claim to develop the best solutions.

Deta's EndurancePRO range evolves: the "made for severe cycling" battery range features the innovative HVR® (High Vibration Resistance) design that assures an incomparable level of robustness and minimized risk of unexpected and premature battery failure. Not only does it guarantee excellent cycling performance and reduced stratification, the new EndurancePRO EFB battery now exceeds the highest requirements in the industry's reference vibration test (V4 level in EN50342-1 vibration test) and is perfectly adapted for installation in vehicles running on rough terrain.



All this means less risk of breakdowns, more starting reliability, and longer lifespan.

Benefits:



 Extremely robust – now with HVR® technology, meeting V4 requirements



• Perfect for deep cycling applications : 2x more cycle life compared to standard truck battery (advanced SHD technology with glass matt layers pasted on active mass) allowing excellent cycling performance (up to 200 cycles at 50% DoD)



Improved durability



OE experience inside



Urban delivery



Low maintenance











Recommended type of vehicles / use conditions:

Long-haul modern/standard trucks with rear-chassis installations and/or hotel functions. Ideal for vehicle running on rough terrain. It requires water topping.

Endurance+PRO GEL

Ahead of its time.

Exide Technologies is the inventor of Gel technology, the ultimate choice for the most demanding commercial vehicles applications. Instead of being in liquid form, the electrolyte is fixed in a gel. This leads to unmatchable cycle life. The new Deta Endurance+PRO GEL battery is highly robust, with best-in-class deep cycle properties. It allows unmatched safe depth of discharge of 90%, which improves Total Cost of Ownership (TCO) and minimizes the risk of breakdowns.





Benefits:



· Supports hotel function



 2x lifetime compared to equivalent AGM and 10x lifetime compared to equivalent standard flooded batteries



High vibration resistant and valve-regulated technology for maximum safety



 90% safe depth of discharge: perfect choice for all commercial vehicles



· Safe and reliable engine start at any time



· Reduces operating costs

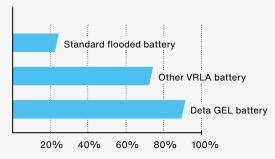


• Maintenance free - no topping up

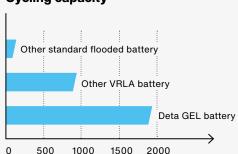
Recommended type of vehicles / use conditions:

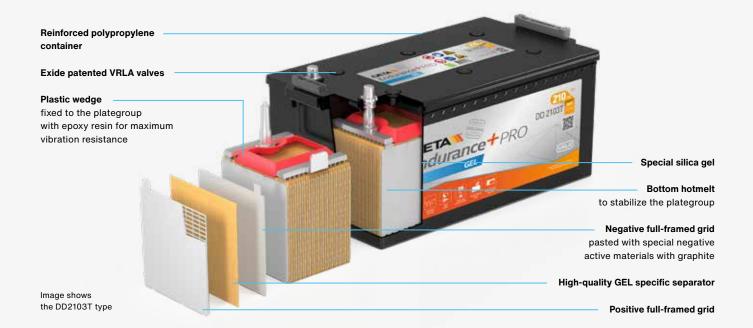
Express delivery trucks (with and without Dual Systems) and city bus with power-hungry equipment and deep cycling needs.

Safe depth of discharge



Cycling capacity





PowerPRO

Impressive power at every start



Benefits:



• Superior cranking power (more plates and active material to maximize grid surface)



• Robust and reliable design with hot melt fixation of plate



+ • Superior power



Designed for extreme climates



• OE experience inside



• Maintenance free - no topping up





Recommended type of vehicles / use conditions:

Standard trucks or vehicles with large/highly compressed engine working in extreme climate and/or high CCA require-

PowerPRO Agri & Construction Choose the original part



Benefits:



 Superior cranking power (more plates and active material to maximize grid surface)



· Robust design with hot melt fixation of plate groups



• Wide range including special types



· Superior power



• True OE Agri or Construction fit (original part)



Maintenance free - no topping up





Recommended type of vehicles /

use conditions:

Tractors and construction machines (agriculture, forestry, and construction machinery)

StartPRO

Reliable starting power for standard use



Benefits:



· Ideal for trucks without special requirements in terms of vibration resistance, cycling, or cranking power



• Robust and reliable design with hot melt fixation of plate groups



Complete range covering almost 100% of vehicle parc, including special types



• Low maintenance - may need water topping up





Recommended type of vehicles / use conditions:

Strandard truck without specific vibration, cycling or cranking

Deta commercial vehicle batteries type list





DE1403	140	800	513	223	189	ETN 3	В0	D04
DE1853	185	1100	513	223	223	ETN 3	В0	D05
DE2353	235	1200	518	240	279	ETN 3	В0	D06

Capacity Ah CCA A (en) L (mm) H (mm) W (mm) Polarity Hold down Box



EndurancePRO EFB

DX1803	180	1000	513	223	223	ETN 3	В0	D05
DX2253	225	1150	518	240	279	ETN 3	B0	D06



Endurance+PRO GEL

DD851T	85	350	349	175	235	ETN 1	В0	D02
DD2103	210	1030	518	240	279	ETN 3	В0	D06
DD2103T	210	800	518	240	279	ETN 3	В0	D06



PowerPRO

DF1202	120	870	349	235	175	ETN 0	B1	D02
DF1250	125	850	349	285	175	ETN 0	В0	D03
DF1251	125	850	349	285	175	ETN 1	В0	D03
DF1453	145	900	513	223	189	ETN 3	В0	D04
DF1853	185	1150	513	223	223	ETN 3	В0	D05
DF2353	235	1300	518	240	279	ETN 3	В0	D06



PowerPRO Agri & Construction

DJ050C	50	800	260	206	173	ETN 1	В7	G34
DJ1102	110	900	349	235	175	ETN 0	B1	D02
DJ1100	110	900	349	235	175	ETN 0	В0	D02
DJ1000	100	850	353	190	175	ETN 0	B13	L05
DJ1805	180	1000	510	225	218	ETN 3	В3	D09
DJ1523	152	1130	513	223	189	ETN 3	В0	D04
DJ1723	172	1390	513	223	223	ETN 3	В0	D05
DJ1355	135	1000	514	210	175	ETN 3	В3	DB8
DJ2353	235	1450	518	240	279	ETN 3	В0	D06



StartPRO

								
DG110B	110	1000	330	240	173	ETN 9	В0	G31
DG1100	110	750	349	235	175	ETN 0	В0	D02
DG1101	110	750	349	235	175	ETN 1	В0	D02
DG1102	110	750	349	235	175	ETN 0	B1	D02
DG1250	125	760	349	290	175	ETN 0	В0	D03
DG1251	125	760	349	290	175	ETN 1	В0	D03
DG145A	145	1000	360	240	253	ETN 6	В0	F21
DG1008	100	680	413	220	175	ETN 0	В3	D01
DG1109	110	800	413	220	175	ETN 1	В3	D01
DG1402	140	900	508	205	175	ETN 0	B1	ATM
DG1206	120	680	510	225	175	ETN 4	В3	D08
DG1406	140	800	510	225	175	ETN 4	В3	D08
DG1806	180	1000	510	225	218	ETN 4	В3	D09
DG1203	120	680	513	223	189	ETN 3	В0	D04
DG1403	140	800	513	223	189	ETN 3	В0	D04
DG1553	155	900	513	223	223	ETN 3	В0	D05
DG1803	180	1000	513	223	223	ETN 3	В0	D05
DG1355	135	1000	514	210	175	ETN 3	В3	DB8
DG1353	135	1000	514	210	218	ETN 3	В0	DB9
DG1705	170	950	514	210	218	ETN 3	В3	DB9
DG2253	225	1200	518	240	279	ETN 3	В0	D06
DG2254	225	1200	518	240	279	ETN 4	В0	D06



manufacturing plants ISO 9001 certified

automotive plants IATF 16949 certified

Energy that

Transportation plant Industrial plant R&D facility Recycling Global HQ

Principle sales offices

+ sales offices and distribution centers across the world

> manufacturing plants ISO 14001 certified

manufacturing plants ISO 50001 certified

Most manufacturing plants ISO 45001 certified

ERGIZING

Subject to alteration