

The shortcut to success.

Battery solutions for commercial vehicles.



DF 1853

DETANI Power PRO

mericas-energy.com

You have great future plans? We put your projects on the right track.

High-performance batteries for extra business power.

Logistics is more important than ever, with customers expecting faster and more predictable deliveries. In this competitive environment, fleet owners are focusing on total cost of ownership. After all, when a truck is off the road, it leads to customer dissatisfaction, unused labor and capital, and potential fines and penalties.

Deta designed its battery range to reduce the risk of breakdowns and give customers a competitive advantage. You get battery options for any use case, market-leading performance, lower total cost of ownership.



Equipment

Trusted by leading commercial vehicle manufacturers.

We have been supplying lead-acid batteries to car and truck makers for more than 135 years. We design the most technically advanced products in the industry, and were the first to introduce High Vibration Resistant (HVR) batteries for trucks back in 2008. Vehicle manufacturers trust the quality of our products and our commitment to excellence in manufacturing.

We work with leading commercial vehicle manufacturers, including:

AGCO group, Bobcat, Case, Claas, Evobus, Isuzu, Iveco, John Deere, Komatsu, Kubota, MAN, Mercedes Trucks, New Holland, Nissan, Renault Volvo Trucks, SAME Deutz-Fahr, Scania, Wacker Neuson, and many others...



There are numerous challenges. And we have the right battery for each one.

As a true expert in OE batteries, we help you select the right Deta 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.



Vibration resistance

For trucks with rear-chassis battery installations, 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.



Range overview and features.			
Performance	Strong PRO EFB+	PowerPRO	StartPRO
Vibration resistance			
Cycling endurance			
Cranking power			
Charge acceptance			
Maintenance	×	A	(d)

Battery recommendation by vehicle type & application.

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

1 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+.

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



Especially when you go forward.



It is enormously important to have someone at your back.



StrongPRO EFB+

Strong, stronger, EFB+.

The Deta StrongPRO EFB+ 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



Goost:



Better rechargeability and charge acceptance than previous generation StrongPRO

unexpected and premature battery failure.

- Better control over gassing and stronger antistratification effect
- ((ご)) Extremely robust with HVR[®] technology, meeting V4 requirements
- Up to 70% savings on TCO within 2 years period when compared with standard batteries
- C. Maximum starting reliability after overnight stay
- RIGINAL 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 installa-tions and/or hotel functions, express delivery, and city bus. Ideal for vehicle running on rough terrain, with power-hungry equipment and deep cycling applications.



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 more economic and sustainable vehicles to reduce fuel consumption and emissions. These new trucks may 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.





New three-axis test HVR technology allows Deta 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

Deta'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 Deta 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





New challenges, new solution.

The lifespan of ordinary batteries is greatly reduced by higher vibrations at the rear of the chassis of the vehicle. Deta 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

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

PowerPRO

Impressive power at every start



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



Superior power



- OE experience inside
- × Maintenance free - no topping up



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

StartPRO

Reliable starting power for standard use





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 needs.



Deta commercial vehicle batteries type list

Deta	Perfor	mance	Dimensions		Technical characteristics			
Code	Capacity Ah	CCA A (EN)	L (mm)	H (mm)	W (mm)	Polarity	Hold down	Box
StrongPRO EFB+								
DE1853	185	1100	513	223	223	ETN 3	В0	D05
DE2353	235	1200	518	240	279	ETN 3	В0	D06
PowerPR	D							
DF1202	120	870	349	235	175	ETN 0	B1	D02
DF1250	125	850	349	290	175	ETN 0	В0	D03
DF1853	185	1150	513	223	223	ETN 3	В0	D05
DF2353	235	1300	518	240	279	ETN 3	В0	D06
StartPRO	StartPRO							
DG105B	105	950	330	240	173	ETN 9	В0	G31
DG1102	110	750	349	235	175	ETN 0	B1	D02
DG110B	110	1000	330	240	173	ETN 9	В0	G31
DG1353	135	1000	514	210	218	ETN 3	В0	DB9
DG1403	140	800	513	223	189	ETN 3	В0	D04
DG1406	140	800	510	225	175	ETN 4	В3	D08
DG1553	155	900	513	223	223	ETN 3	В0	D05
DG1803	180	1000	513	223	223	ETN 3	В0	D05
DG1806	180	1000	510	225	218	ETN 4	В3	D09
DG2253	225	1200	518	240	279	ETN 3	В0	D06
DG2254	225	1200	518	240	279	ETN 4	В0	D06

Deta	Perfor	mance	Dimensions		Technical characteristics			
Code	Capacity Ah	CCA A (EN)	L (mm)	H (mm)	W (mm)	Polarity	Hold down	Box
StrongPRO EFB+								
DE1853	185	1100	513	223	223	ETN 3	В0	D05
DE2353	235	1200	518	240	279	ETN 3	В0	D06
PowerPR	D							
DF1202	120	870	349	235	175	ETN 0	B1	D02
DF1250	125	850	349	290	175	ETN 0	В0	D03
DF1853	185	1150	513	223	223	ETN 3	В0	D05
DF2353	235	1300	518	240	279	ETN 3	В0	D06
StartPRO								
DG105B	105	950	330	240	173	ETN 9	В0	G31
DG1102	110	750	349	235	175	ETN 0	B1	D02
DG110B	110	1000	330	240	173	ETN 9	В0	G31
DG1353	135	1000	514	210	218	ETN 3	В0	DB9
DG1403	140	800	513	223	189	ETN 3	В0	D04
DG1406	140	800	510	225	175	ETN 4	В3	D08
DG1553	155	900	513	223	223	ETN 3	В0	D05
DG1803	180	1000	513	223	223	ETN 3	В0	D05
DG1806	180	1000	510	225	218	ETN 4	В3	D09
DG2253	225	1200	518	240	279	ETN 3	В0	D06
DG2254	225	1200	518	240	279	ETN 4	В0	D06

Deta	Perfor	mance	Dimensions			Technical characteristics		
Code	Capacity Ah	CCA A (EN)	L (mm)	H (mm)	W (mm)	Polarity	Hold down	Box
StrongPRO EFB+								
DE1853	185	1100	513	223	223	ETN 3	В0	D05
DE2353	235	1200	518	240	279	ETN 3	В0	D06
PowerPRC	D							
DF1202	120	870	349	235	175	ETN 0	B1	D02
DF1250	125	850	349	290	175	ETN 0	В0	D03
DF1853	185	1150	513	223	223	ETN 3	В0	D05
DF2353	235	1300	518	240	279	ETN 3	В0	D06
StartPRO	StartPRO							
DG105B	105	950	330	240	173	ETN 9	В0	G31
DG1102	110	750	349	235	175	ETN 0	B1	D02
DG110B	110	1000	330	240	173	ETN 9	В0	G31
DG1353	135	1000	514	210	218	ETN 3	В0	DB9
DG1403	140	800	513	223	189	ETN 3	В0	D04
DG1406	140	800	510	225	175	ETN 4	В3	D08
DG1553	155	900	513	223	223	ETN 3	В0	D05
DG1803	180	1000	513	223	223	ETN 3	В0	D05
DG1806	180	1000	510	225	218	ETN 4	В3	D09
DG2253	225	1200	518	240	279	ETN 3	В0	D06
DG2254	225	1200	518	240	279	ETN 4	В0	D06

Progress knows no borders. Like our dedication for a sustainable future.

Mericas® battery solutions are designed and manufactured in Europe. Transforming the future of energy storage and driving the electrification from all our locations around the world.



Subject to alteration

19200 Azuqueca de Henares Guadalajara, Spain

Phone: +34 902 501 300 +34 949 360 019

mericas-energy.com

2600-729 Castanheira do Ribatejo Vila Franca de Xira, Portugal

Exide Technologies s.r.l. Via Dante Alighieri 100/106 Romano di Lombardia (BG) Italv

61-016 Poznań Poland

Exide Technologies SAS 5-7, Allée des Pierres Mayettes 92636 Gennevilliers France

63654 Büdingen Germany

