

EXIDE[®]

BATTERIES

MORE DEMANDING ENERGY REQUIREMENTS THAN EVER BEFORE

In recent years, the energy demands of modern vehicles have risen by up to 300%. In order to select the correct battery, it is worth considering not only your car engine size and power, but also on-board electrically-powered equipment and even climate and driving conditions. The Exide Evolution Programme has been designed to help make your choice of battery the right one.

**EXIDE
EVOLUTION**



Exide Evolution Programme guarantees to identify the best-performing Exide battery to satisfy all your customers' needs.

THE HIGH PERFORMANCE BATTERY

Exide Premium*** delivers highly-concentrated energy, high capacity, and high starting power – all combined in the same battery.

Great advances in manufacturing processes and outstanding material quality has allowed development of a battery with:

1. Extended product lifetime compared to a standard battery due to:
 - Better resistance to discharge and recharge gained by improved active paste adherence on the metal grids
 - Larger capacity reserve provided by the use of thicker plates
 - Better corrosion resistance gained by expanded metal grids (Exmet) and use of improved metal alloys
2. High starting power and reliability in all weather conditions, delivering a greater number of engine starts.



SUITABLE FOR

ADVANTAGES



Powerful diesel and petrol engines

+30%

more starting power than a standard battery



Superior equipment (factory standard + optional extras)



Everyday driving and Intensive urban use



Extended product life in extreme hot or cold operating temperatures



Completely maintenance-free

State-of-charge indicator for quick assessment of charge level at a glance

Heat-sealed double lid, which cannot be opened, for unbeatable security

Exide-patented labyrinth system, preventing acid spill and allowing safe flow-back of acid particles

Complies with "Original Part Matching Quality" regulations



SUITABLE FOR

ADVANTAGES



Most modern vehicles

+15%

more starting power than a standard battery



Standard equipment



Everyday driving



Completely maintenance-free

State-of-charge indicator for quick assessment of charge level at a glance

Central venting with spark arrestors for improved safety

SUITABLE FOR

The economy choice for older cars with a basic number of electrical devices



Standard
diesel and petrol
engines



Powerful
diesel and petrol
engines



The battery should always have enough starting power to match the size and power of the engine, always considering the vehicle manufacturer's recommended guidelines as a minimum requirement.

This starting power is the **cold cranking current** (CCA, in Amperes [A (EN)]), supplied by the battery.

For high performance petrol or diesel engines the required **starting power** will be a more important consideration.

1 ENGINE SIZE AND TYPE

Each vehicle, according to its power, its equipment level, its application or environmental working conditions, has its own individual energy requirements.



4 DRIVING CONDITIONS

Intensive urban driving usually involves many engine starts and short journeys which consumes additional energy from the battery. The on board charging system (alternator) cannot always recharge the battery sufficiently on these short trips, reducing charge capacity and resulting in a shorter product life.

For situations involving intensive urban use, the battery needs to have a **higher capacity** to return its full product lifetime and potential.



Everyday
driving



Short journey's
in congested
urban areas



The battery is the energy source which supplies all the electronics in the vehicle. The amount of available energy in the electrical circuit is directly proportional to the **capacity** of the battery, which is measured in Amperes per hour (Ah).

Many security, comfort or luxury devices are fitted in the latest vehicles (on the right you can see a short check-list). The greater the equipment levels, the larger the battery capacity required to supply the necessary power to the vehicle equipment installed.

EQUIPMENT 2

Standard equipment:

- On-board computer
- Air conditioning
- CD and radio player
- Electric windows and mirrors



Superior equipment:

- Alarm
- SAT/ NAV (GPS)
- Entertainment-system / DVD
- Electric parking brakes
- Heated seats • Auxiliary heating
- Tuning devices



CLIMATE 3

Extreme temperatures can affect battery performance and shorten product life.

Higher working temperatures will damage the active material within the cell and cause corrosion. It will also accelerate self-discharge causing the performance and capacity of the battery to decline. In high temperatures the battery should have a higher capacity to maintain its full potential.

Cold climate conditions increase the internal resistance of the battery, reducing starting power and charge acceptance. Vehicles operating in these conditions require a battery with a higher cold cranking current (CCA) rating for reliable performance when starting the vehicle.



Moderate temperatures



Extreme temperatures



HOW TO SELECT THE BEST BATTERY FOR YOUR CUSTOMER?

Once you have identified the right battery size with the help of the Exide fitment catalogue use this chart to select the right product performances to best meet your customer's requirements.



Vehicle

1 ENGINE SIZE AND TYPE



Older vehicles pre-1997



Diesel and petrol engines



Powerful diesel and petrol engines

2 EQUIPMENT



Basic



Standard



Superior

3 CLIMATE



Moderate



Moderate



Extreme

4 DRIVING CONDITIONS



Everyday driving



Everyday driving



Urban use, short journeys in congested traffic



TECHNICAL SPECIFICATIONS

Ranges are subject to individual country requirements



Premium ***

EXIDE		PERFORMANCES		DIMENSIONS				TECHNICAL CHARACTERISTICS		
CODE	REPLACES	CAPACITY Ah	CCA A (EN)	CON- TAINER	L (mm)	L (mm)	H (mm)	POLA- RITY	TERMI- NALS	HOLD DOWN
EA386	XP19 (535 20)	38	300	B19	187	127	220	0	1 / 3	Korean B1
EA387	XP20 (535 22)	38	300	B19	187	127	220	1	1 / 3	Korean B1
EA456	EX154/XP21 (545 23/545 77)	45	390	B24	237	127	227	0	1 / 3	Korean B1
EA457	EX155/XP22 (545 24/545 51)	45	390	B24	237	127	227	1	1 / 3	Korean B1
EA472	XP03/XC03	47	450	LB1	207	175	175	0	1	B13
EA530	EX05/XP01/XC01 (544 59)	53	540	L01	207	175	190	0	1	B13
EA602	XP06/XC06 EX10/EX09	60	600	LB2	242	175	175	0	1	B13
EA640	XP04/EX11/12 (555 59/562 19)	64	640	L02	242	175	190	0	1	B13
EA654	EX14/XP14 (560 68)	65	580	D23	230	173	222	0	1	Korean B1
EA655	EX15/XP15 (560 69)	65	580	D23	230	173	222	1	1	Korean B1
EA722	EX16/EX17 XP08/XC08	72	720	LB3	278	175	175	0	1	B13
EA754	EX21/XP16 (570 29)	75	630	D26	270	173	222	0	1	Korean B1
EA755	EX22/XP17 (570 24)	75	630	D26	270	173	222	1	1	Korean B1
EA770	XP07/XC07/EX19 (572 30/574 12)	77	760	L03	278	175	190	0	1	B13
EA852	EX23/XP09 (580 35/580 43)	85	800	LB4	315	175	175	0	1	B13
EA1000	EX28/EX31/EX32 XP10/XC10	100	900	L05	353	175	190	0	1	B13
EA1004	XP11 (600 32/EX26)	100	850	D31	306	173	222	0	1	Korean B1
EA1005	XP18 (600 33/EX27)	100	850	D31	306	173	222	1	1	Korean B1



Excell **

EB320	536 47 (532 26/532 28)	32	270	E01	178	135	225	0	1	B01
EB356	EX54 (535 20)	35	240	B19	187	127	220	0	3	B00
EB357	EX55 (535 22)	35	240	B19	187	127	220	1	3	B00
EB440	EX50 (540 10/544 01)	44	400	L00	175	175	190	0	1	B13
EB442	EX02/EX01 (536 46)	44	420	LB1	207	175	175	0	1	B13/Adapter
EB450	EX48 (545 77)	45	330	E02	220	135	225	0	1	B01
EB451	EX49 (545 79)	45	330	E02	220	135	225	1	1	B01
EB454	EX44 (545 23)	45	300	B24	237	127	227	0	1	B00
EB455	EX43 (545 24)	45	300	B24	237	127	227	1	1	B00
EB456	EX154 (545 84)	45	300	B24	237	127	227	0	3	B00
EB457	EX155 (545 51)	45	300	B24	237	127	227	1	3	B00
EB500	EX05 (550 54)	50	450	L01	207	175	190	0	1	B13
EB501	EX04 (544 64)	50	450	L01	207	175	190	1	1	B13
EB504	EX07 (550 41)	50	360	D20	200	173	222	0	1	Korean B1
EB505	EX08 (550 42)	50	360	D20	200	173	222	1	1	B00
EB542	EX10/EX09 (550 46)	54	520	LB2	242	175	175	0	1	B13/Adapter
EB604	EX14 (560 68)	60	390	D23	230	173	222	0	1	B00
EB605	EX15 (560 69)	60	390	D23	230	173	222	1	1	B00
EB608	—	60	640	G75	230	180	186	1	SAE	B09
EB620	EX11 (555 59/555 64)	62	540	L02	242	175	190	0	1	B13
EB704	EX21 (570 29)	70	540	D26	270	173	222	0	1	B09
EB705	EX22 (570 24)	70	540	D26	270	173	222	1	1	B09
EB712	EX18 (566 38/566 47)	71	670	LB3	278	175	175	0	1	B13/Adapter
EB740	EX19 (572 30/574 12)	74	680	L03	278	175	190	0	1	B13
EB741	EX20 (572 19/574 13)	74	680	L03	278	175	190	1	1	B13
EB758	US-Anschlüsse	75	770	G78	260	180	186	1	SAE	B07
EB788	US-Anschlüsse	78	850	G65	365	192	192	1	1	B01
EB800	EX23 (580 35/580 43)	80	700	L04	315	175	190	0	1	B13
EB802	EX23 (580 35/580 43)	80	700	LB4	315	175	175	0	1	B13
EB852	EX28/EX31 (585 15)	85	760	LB5	353	175	175	0	1	B13
EB950	EX31 (588 277/592 26)	95	800	L05	353	175	190	0	1	B13
EB1004	EX26 (600 32)	100	720	D31	306	173	222	0	1	Korean B1
EB1005	EX27 (600 33)	100	720	D31	306	173	222	1	1	Korean B1



Classic *

EC400	540 10	40	320	L00	175	175	190	0	1	B13
EC412	536 46	41	370	LB1	207	175	175	0	1	B13/Adapter
EC440	544 59	44	360	L01	207	175	190	0	1	B13
EC441	544 64	44	360	L01	207	175	190	1	1	B13
EC502	550 46	50	510	LB2	242	175	175	0	1	B13/Adapter
EC550	555 59	55	460	L02	242	175	190	0	1	B13
EC551	555 64	55	460	L02	242	175	190	1	1	B13
EC652	563 18/565 30	65	540	LB3	278	175	175	0	1	B13/Adapter
EC700	572 30/574 12	70	640	L03	278	175	190	0	1	B13
EC708	—	70	540	G34	260	173	206	1	1	B12
EC900	588 27/592 26	90	720	L05	353	175	190	0	1	B13

EXIDE®

B A T T E R I E S

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