MARINE & LEISURE
BATTERY SOLUTIONS

ENSURE SAFER & LONGER TRIPS BY CHOOSING THE RIGHT BATTERY

The battery is critical to safety and comfort. It powers key operations like engine start, radio, GPS, lighting, heating and refrigeration, allowing passengers to feel sheltered, entertained and connected to the outside world.

Exide's new marine range covers all the energy needs of both professional installers and private users. It offers the very best in reliability and electrical performance, allowing you to extend average trip length, experience improved luxury and comfort on board, and benefit from exceptional battery lifespan.

Exide's premium marine batteries are a preferred choice for boat builders. Exide's Gel and AGM batteries are DNV-GL approved, the highest endorsement for a marine market product, making it easier to align with European naval regulations for newly built boats.

HOW TO SELECT THE BEST BATTERY SOLUTIONS

1 **IDENTIFY** THE BOAT'S ENERGY NEEDS

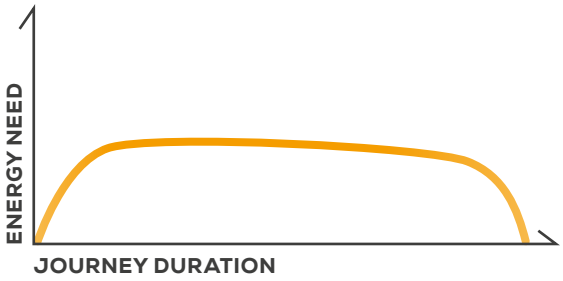
2 **FIND THE RIGHT** BATTERY COMBINATION

3 **SELECT THE BEST** BATTERY TECHNOLOGY

IDENTIFY THE BOAT'S ENERGY NEEDS

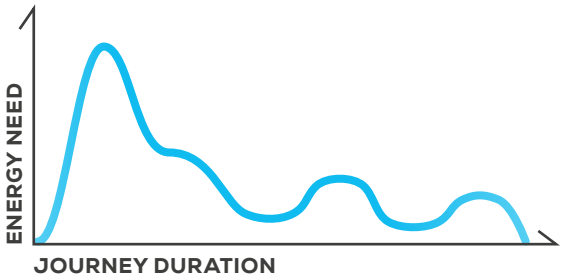
EQUIPMENT SUPPLY NEED

An uninterrupted supply to emergency or comfort equipment uses power at consistently high levels, causing deep battery discharge during the journey. The electrical unit used to measure equipment supply need is Wh*.



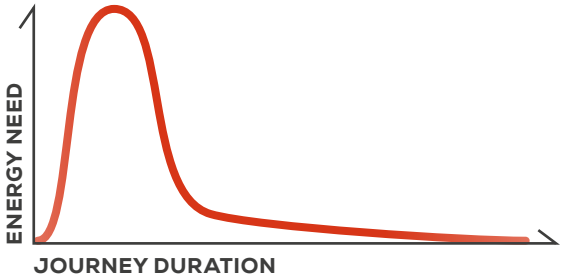
DUAL SUPPLY NEED

Starting engine in combination with the supply to other electrical equipment requires high peaks of power and also a variable power drain, causing battery discharge during the journey. The electrical unit used to measure dual supply need is Wh*.



ENGINE START NEED

Starting a combustion engine requires high peaks of power during a short time, leaving batteries unused for the rest of the journey. The electrical unit used to measure engine start need is MCA*.



*MCA = Marine Cranking power in Amps at 0°C
*Wh = Available Watt x hour at 20h rate from a battery, without exceeding its recommended depth of discharge

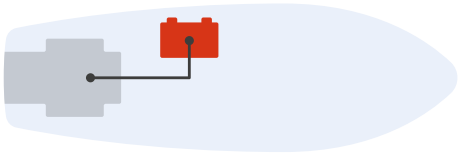
FIND THE RIGHT BATTERY COMBINATION

PERFECT FOR SEASONAL USE

EXAMPLES OF DIFFERENT CONFIGURATIONS

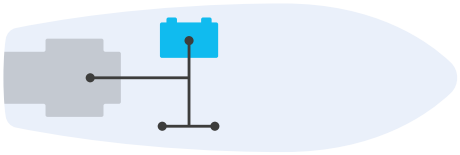
Case A - Engine only

Boats for which batteries are applied to engine start only. The electrical equipment is not supplied with energy when the engine is switched off. This configuration corresponds to Engine start need.



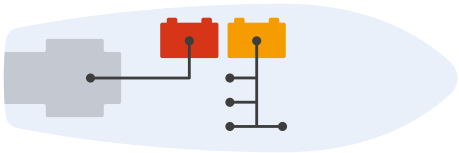
Case B - Engine & Equipment

Boats for which one unique bank of battery has to supply power for engine start and electrical equipment. This configuration corresponds to Dual supply need.



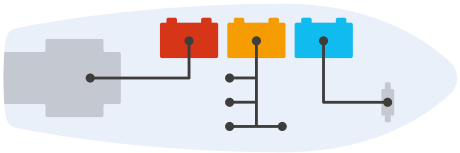
Case C - Engine + Equipment

Boats for which 2 separated banks of batteries are dedicated to supply power, one for engine start and the other for electrical equipment. This configuration corresponds to two needs: Engine start plus Equipment supply. In total, 2 different batteries are required.



Case D - Engine + Equipment + Other

Boats for which, in addition to 2 main battery banks (engine + equipment), other batteries are installed to supply power directly to electrical winches, thrusters or trolling motors. This configuration corresponds to three needs: Engine start plus Equipment supply plus Dual supply. In total, 3 different batteries are required.



EACH ENERGY NEED HAS ITS OPTIMAL BATTERY SOLUTION

EQUIPMENT SUPPLY NEED

EQUIPMENT battery range is designed to supply power for boats with dedicated battery banks for equipment such as navigation, emergency, safety and comfort (cases C&D). The batteries are partially or even deeply discharged during use. This means that the EQUIPMENT's special design, together with a good recharging procedure, is the key to providing the most reliable result and service life duration. EQUIPMENT range, with Wh* performance from 290Wh to 2400Wh, is the choice to cover all equipment supply needs, from small electronics to emergency power.

DUAL SUPPLY NEED

Exide DUAL battery range is designed to supply power for boats having one battery bank for all consumers (case B). It is also suitable for additional batteries directly applied to electrical winches, thrusters and trolling motors (case D). The batteries are partially discharged during use. This means that the DUAL's reinforced design, together with a good recharging procedure, is key to providing the best result and service life duration. DUAL battery range, with Wh* performance from 350Wh to 2100Wh, is the choice to cover all dual supply needs for the most popular recreational boats.

ENGINE START NEED

Exide START battery range is designed to supply high power for engine start when installed alone for boats with basic equipment (case A). It can also be used when installed in engine-dedicated battery banks for the most sophisticated yachts (cases C&D). The batteries are usually charged after starting the engine, as the alternator quickly returns consumed power. The START design provides good performance and service life duration. START battery range, with MCA* performance from 500A to 1100A, is the choice to cover all engine start needs from small outboards to big sterndrives.

*MCA = Marine Cranking power in Amps at 0°C
*Wh = Available Watt x hour at 20h rate from a battery, without exceeding its recommended depth of discharge

SELECT THE BEST BATTERY TECHNOLOGY

EQUIPMENT SUPPLY NEED

EQUIPMENT

Standard flooded with glass mat separators and plug venting.

Benefits

- Superior cycling
- Low maintenance
- Slight inclination
- Medium vibration & tilt resistant

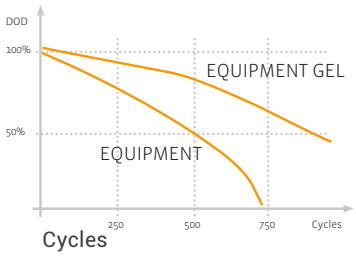
EQUIPMENT GEL

Gel (electrolyte fixed in a gel) with VRLA venting.

Benefits

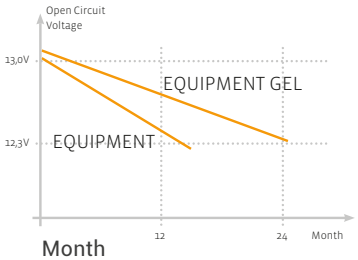
- Superior cycling
- Internal gas recombination
- No location constraints (safe for cabin mount)
- Safe and clean (spark & spill-proof)
- High inclination
- High vibration & tilt resistant
- Absolutely maintenance free
- Suitable for long resting periods
- High energy density
- Space saving of up to 30%

CYCLING PERFORMANCES VS DEPTH OF DISCHARGE AT 20°C



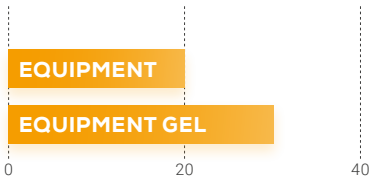
Cycles

SHELF LIFE AT 20°C



Month

VIBRATION RESISTANCE AT 6G/35HZ*



Time (hours)

* Referred to EN50342

DUAL SUPPLY NEED

DUAL

Standard flooded with central degassing

Benefits

- Start & supply
- Low maintenance
- Low gas emission
- To be installed in special container
- Upright mount
- Medium vibration & tilt resistant
- Top indicator for electrolyte & charge inspection (except ER660)

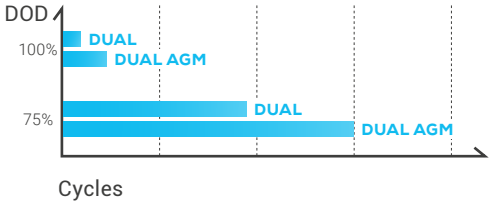
DUAL AGM

AGM flat or orbital with VRLA venting

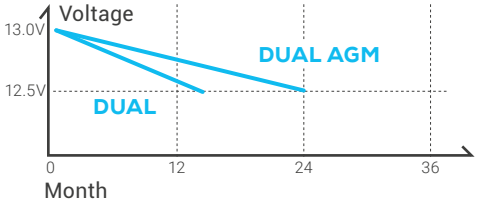
Benefits

- Extra start & supply
- Absolutely maintenance free
- Suitable for long resting periods
- Faster recharge
- Up to 50% faster recharging
- High inclination
- High vibration & tilt resistant
- Internal gas recombination
- No location constraints (safe for cabin mount)
- Safe and clean (spark & spill-proof)

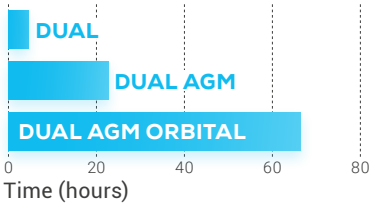
CYCLING PERFORMANCES VS DEPTH OF DISCHARGE AT 20°C



SHELF LIFE AT 20°C



VIBRATION RESISTANCE AT 6G/35HZ*



* Referred to EN50342

ENGINE START NEED

START

Standard flooded with plug venting

Benefits

- Superior starting power
- Absolutely maintenance free
- Very low gas emission
- Spark arrestor & central degassing for safe gas conduction
- Slight inclination

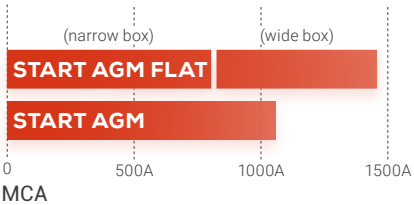
START AGM

AGM flat or orbital with VRLA venting

Benefits

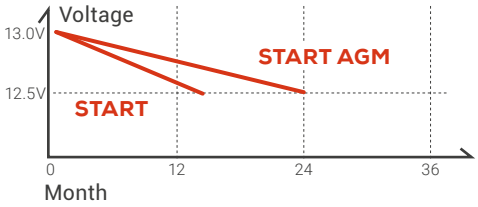
- Superior starting power
- Absolutely maintenance free
- Suitable for long resting periods
- Up to 50% faster recharging
- High inclination
- High vibration & tilt resistant
- Internal gas recombination
- No location constraints (safe for cabin mount)
- Safe and clean (spark & spill-proof)

MARINE CRANKING POWER AT 0°C*

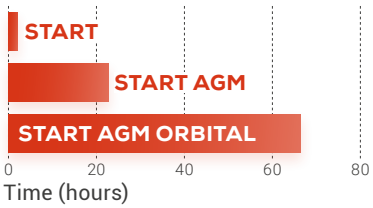


* Referred to BCI standard for Marine Cranking Amperes (MCA)

SHELF LIFE AT 20°C



VIBRATION RESISTANCE AT 6G/35HZ*



* Referred to EN50342

FINALIZE YOUR CHOICE

BY CALCULATING THE ENERGY REQUIRED IN WATTS PER HOUR

1. **START BY CALCULATING** DEVICE CONSUMPTIONS

Power **x** Daily usage **= ENERGY CONSUMPTION (Wh)**

25W 4h
LAMP
100 Wh

300W 1h
COFFEE MACHINE
300 Wh

35W 2h
WATER PUMP
70 Wh

80W 6h
FRIDGE
480 Wh

40W 3h
TV SET
120 Wh

=

TOTAL ENERGY NEEDED
1 070 Wh

2. **APPLY A SAFETY FACTOR** TO COVER OVERUSE

x1,2

TOTAL REQUIRED
1 284 Wh

3. **SELECT YOUR BATTERY SET** ACCORDING TO THE REQUIREMENTS

EQUIPMENT
GEL

Reference: **ES 1300**
Energy: **1.300 Wh***
Weight: **39 kg**

DUAL
AGM

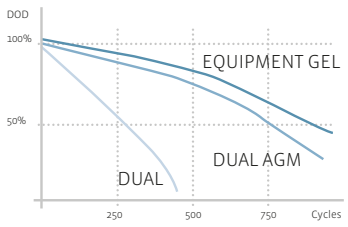
Reference: **EP 900**
Energy: **2 x 900 Wh***
Weight: **2 x 32 kg**

DUAL

Reference: **ER 450**
Energy: **3 x 450 Wh***
Weight: **3 x 23 kg**

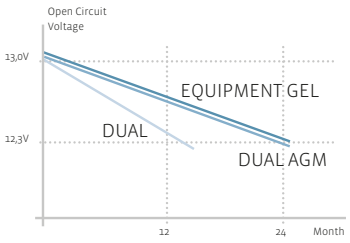
*Wh = Available Watt x hour at 20h rate from a battery, without exceeding its recommended depth of discharge

CYCLING PERFORMANCES VS DEPTH OF DISCHARGE AT 20°C



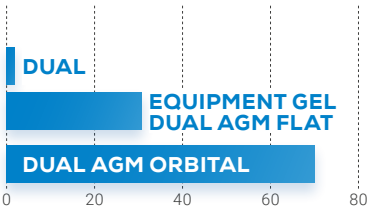
Cycles

SHELF LIFE AT 20°C



Month

VIBRATION RESISTANCE AT 6G/35HZ*



Time (hours)

* Referred to EN50342

DID YOU KNOW ?

When selected battery technology does not achieve the required Wh for a vehicle, either the number of batteries connected in parallel has to be increased or the technology has to be upgraded to Equipment Gel.

Jet-skis and scooters, often used as service vehicles, are fitted with the Exide Poxwersport offer.

MORE THAN BATTERIES

Because marine battery use is seasonal, tools such as testers and chargers are essential for marine professionals and end users alike. Exide has a comprehensive range of accessories and support for batteries of all kinds of applications. We help you test, charge, select, replace and recycle batteries – everything workshops need to keep work in-house, provide quality service and grow profitability.

TESTING

EBT-965P BATTERY TESTER

Exide's advanced and easy to use EBT-965P is the next-generation battery tester, 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.

CONVENTIONAL | AGM | EFB | GEL

STANDARD TESTERS

Conductance

Cranking Capability CCA

EXIDE EBT-965P TESTER

Conductance Profiling™

Energy Availability START STOP CCA

CHARGING

BATTERY CHARGER

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

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

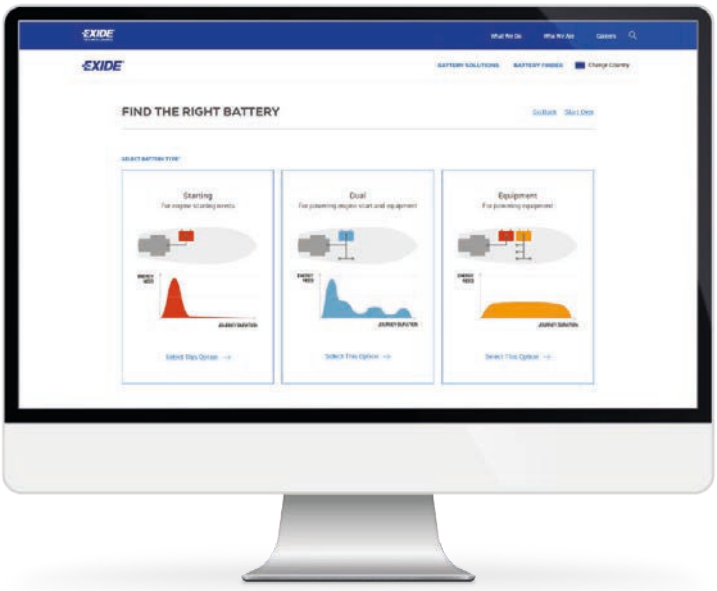
CONVENTIONAL | AGM | EFB | GEL

QR CODE

Want to find out more?

Scan the QR code on the battery label and get more information right away.

No more waiting until you get home.



BATTERY FINDER ONLINE NEW

The new Online battery finder features a modern interface and all-new user experience, it supports battery selection and fitting for the most comprehensive range of boats and vehicle types.

It propose now an exclusive tool that allows to make the best choice based on the specific electrical needs of the user.

www.exide.com/eu/en/battery-finder

TYPE LIST

EQUIPMENT GEL

EQUIPMENT AGM

EQUIPMENT

CODE	Technology				Performances			Dimensions			Technical Characteristics				
	GEL	AGM Flat	AGM Orbital	Flooded	Wh*	Capacity Ah (20h)	CCA A (EN)	L (mm)	W (mm)	H (mm)	Polarity	Terminal	Weight (kg)	Box	
ES 290	•				290	25	–	165	175	125	0	Flat Lug (M5)	10	P24	
ES 450	•				450	40	–	210	175	175	0	Flat Lug (19)	14	LB1	•
ES 650	•				650	56	–	278	175	190	0	Standard	21	L03	•
ES 900	•				900	80	–	350	175	190	0	Standard	26	L05	•
ES 950	•				950	85	–	350	175	235	1	Standard	28	D02	•
ES1000-6	•				1000	195 (6V)	–	245	190	275	0	Standard	29	GC2	•
ES1100-6	•				1100	200 (6V)	–	245	190	275	0	Threaded insert	31	GC2	•
ES1200	•				1200	110	–	285	270	230	2	Standard	38	D07	•
ES1300	•				1300	120	–	350	175	290	0	Standard	38	D03	•
ES1350	•				1350	120	–	513	189	223	3	Standard	40	D04	•
ES1600	•				1600	140	–	513	223	223	3	Standard	47	D05	•
ES2400	•				2400	210	–	518	279	240	3	Standard	64	D06	•
EQ1000		•			1000	120	–	286	269	230	2	Standard	40	D07	
ET650				•	650	100	–	350	175	190	0	Standard	27	L05	
ET950				•	950	135	–	513	189	223	3	Standard	40	D04	
ET1300				•	1300	180	–	513	223	223	3	Standard	50	D05	
ET1600				•	1600	230	–	518	279	240	3	Standard	65	D06	

CODE STRUCTURE

E **M** **1000**

BRAND

E	EXIDE

RANGE NAME

M	Start AGM
N	Start
P	Dual AGM
R	Dual
S	Equipment GEL
T	Equipment
U	Vintage
V	Equipment Li-Ion

ELECTRICAL UNIT

MCA*
MCA*
Wh*
Wh*
Wh*
Wh*
Ah
Wh*

PERFORMANCE

1000	1000 A
1000	1000 A
1000	1000 Wh
1000	1000 Wh
1000	1000 Wh
1000	1000 Wh
100-6	100 Ah/ 6V
1000	1000 Wh

DUAL AGM

CODE	Technology				Performances			Dimensions			Technical Characteristics				
	GEL	AGM Flat	AGM Orbital	Flooded	Wh*	Capacity Ah (20h)	CCA A (EN)	L (mm)	W (mm)	H (mm)	Polarity	Terminal	Weight (kg)	Box	
EP450			•		450	50	750	260	173	206	1	Standard + Threaded	19	G34	•
EP500		•			500	60	680	242	175	190	0	Standard	18	L02	•
EP600		•			600	70	760	278	175	190	0	Standard	21	L03	•
EP800		•			800	95	850	353	175	190	0	Standard	26	L05	•
EP 900		•			900	100	800	330	173	240	1	SAE M 3/8«- 5/16» taper&stud	31	G31	•
EP1200		•			1200	140	700	513	189	223	3	Standard	41	D04	•
EP1500		•			1500	180	900	513	223	223	3	Standard	50	D05	•
EP2100		•			2100	240	1200	518	279	240	3	Standard	70	D06	•

DUAL

ER350				•	350	80	510	260	175	225	1	Standard	18	D26	
ER450				•	450	95	650	310	175	225	1	Standard	22	D31	
ER550				•	550	115	760	350	175	235	1	Standard	28	D02	
ER650				•	650	142	850	350	175	290	1	Standard	35	D03	
ER660				•	660	140	750	513	189	223	3	Standard	37	D04	
ER850				•	850	180	1000	513	223	223	3	Standard	46	D05	

START AGM

CODE	GEL	AGM Flat	AGM Orbital	Flooded	MCA* A (BCI)	Capacity Ah (20h)	CCA A (EN)	L (mm)	W (mm)	H (mm)	Polarity	Terminal	Weight (kg)	Box	
EM900			•		900	42	700	230	173	206	1	Standard + Threaded	16	G86	•
EM960		•			960	100	800	330	173	240	1	SAE M 3/8» taper&stud	31	G31	
EM1000			•		1000	50	800	260	173	206	1	Standard + Threaded	18	G34	•

START

EN500				•	500	50	450	210	175	190	0	Standard	12	L01	
EN600				•	600	62	540	242	175	190	0	Standard	14	L02	
EN750				•	750	74	680	278	175	190	0	Standard	17	L03	
EN800				•	800	90	720	353	175	190	0	Standard	20	L05	
EN850				•	850	110	750	350	175	235	1	Standard	25	D02	
EN900				•	900	140	800	513	189	223	3	Standard	34	D04	
EN1100				•	1100	180	1000	513	223	223	3	Standard	43	D05	

VINTAGE

COMPLEMENTARY RANGE FOR OLD FITMENTS														
EU80-6				•	–	80 (6V)	600	158	165	220	0	Standard	11	M02	
EU140-6				•	–	140 (6V)	900	257	175	236	0	Standard	18	M04	
EU165-6				•	–	165 (6V)	900	330	174	234	0	Standard	25	M05	
EU260-6				•	–	260 (6V)	1300	350	175	290	0	Standard	39	M08	

*MCA = BCI Marine Cranking power in Amps at 0°C
*Wh = Available Watt x hour at 20h rate from a battery, without exceeding its recommended depth of discharge

DID YOU KNOW ?

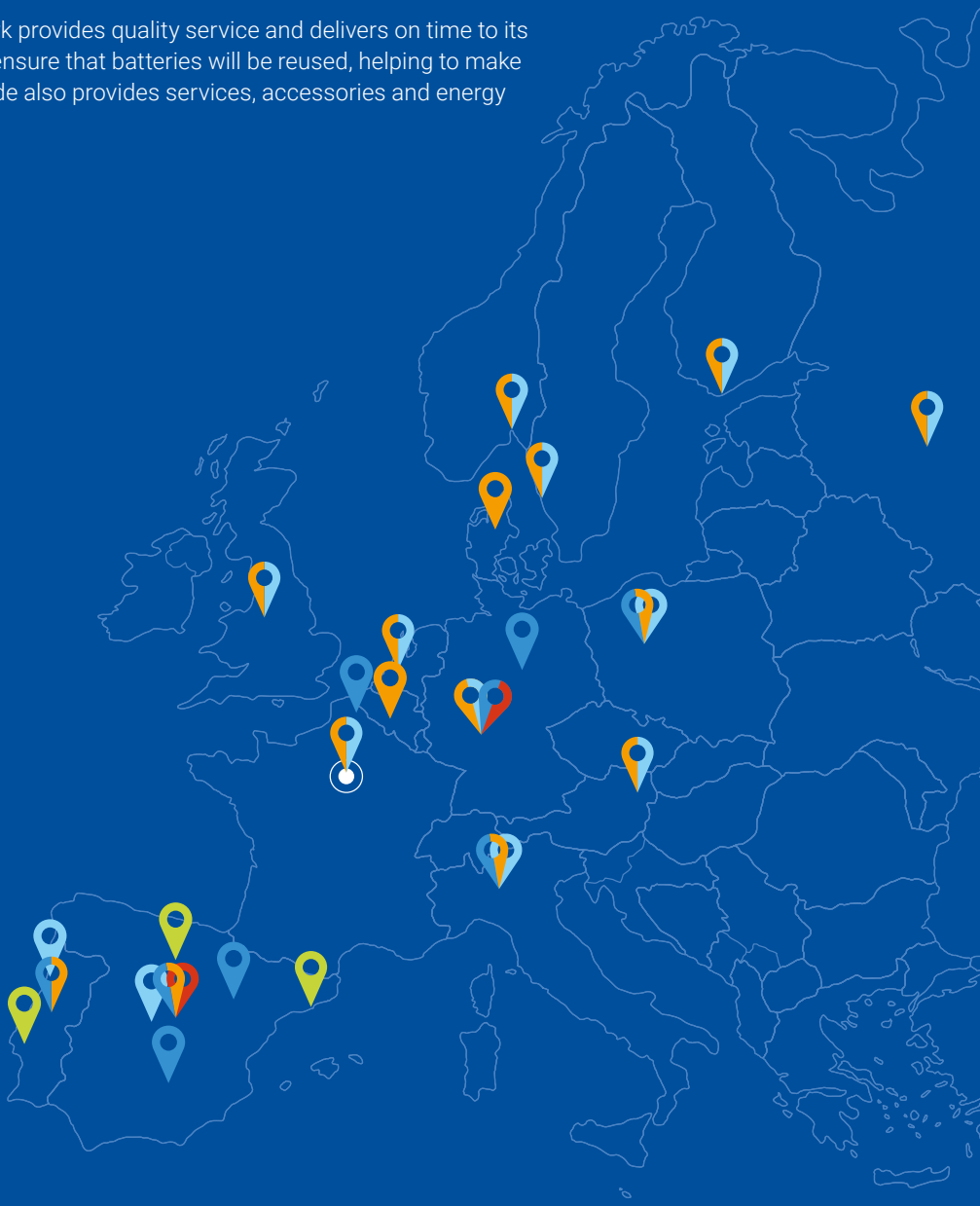
Exide also produces batteries for light vehicles, commercial vehicles, motorcycles and caravans. Contact your local sales representative or visit www.exide.com to find out more.

Exide Technologies, with operations in more than 80 countries and more than 130 years of experience, is one of the world's largest producers and recyclers of lead-acid batteries. The company develops state-of-the-art energy storage solutions for the automotive and industrial market. Leading car, truck and lift truck manufacturers trust in Exide Technologies as an original equipment supplier. Exide also serves the aftermarket through a portfolio of successful and well-known brands.

Exide Transportation manufactures batteries for light and commercial vehicles, as well as agricultural and marine leisure applications. Industrial markets – under the division **GNB Industrial Power** – include efficient energy storage solutions for motive power applications such as lift trucks, cleaning machines and other commercial electrical vehicles, and network power applications such as telecommunications systems, renewables, and uninterruptible power supply (UPS).

Exide's engineers have always been at the forefront of bringing important innovations to the industry. Exide's IATF 16949 certified manufacturing facilities ensure that customers receive products that are produced with maximum efficiency and fulfill the highest quality standards, while minimizing impact on the environment.

Exide's extensive sales and distribution network provides quality service and delivers on time to its customers. Its world-class recycling facilities ensure that batteries will be reused, helping to make a positive contribution to the environment. Exide also provides services, accessories and energy consulting to its clients.



- EMEA headquarters
- Manufacturing plants
- Recycling plants
- Distribution centers
- Main sales offices
- R&D centres

Manufacturing plants ISO 9001 and ISO 14001 certified

Automotive plants IATF 16949 approved

EMEA HEADQUARTERS

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