MARINE & LEISURE
BATTERY SOLUTIONS

Made in Europe by Exide Technologies - Original Equipment Manufacturer

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 approved, the highest endorsement for a marine market product, making it easier to align with European naval regulations for newly built boats.

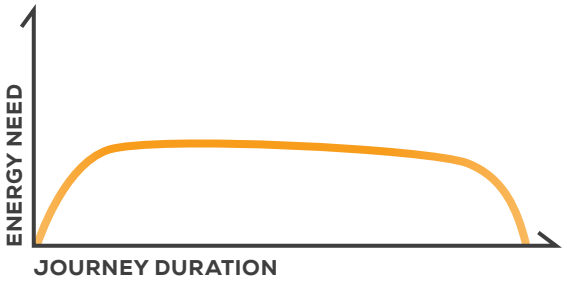
HOW TO SELECT THE BEST BATTERY SOLUTIONS

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

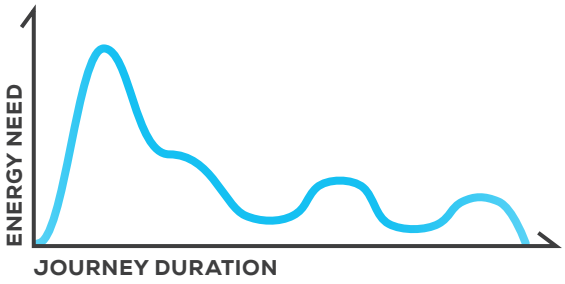
EQUIPMENT SUPPLY NEED

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*.



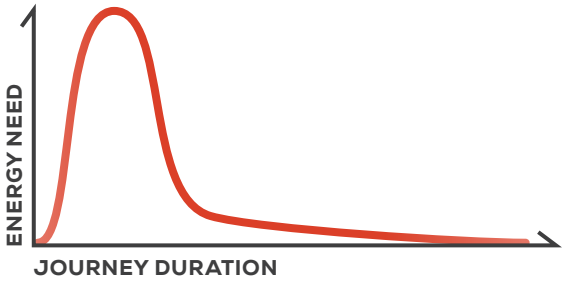
DUAL SUPPLY NEED

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

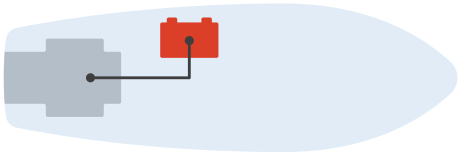
FIND THE RIGHT BATTERY COMBINATION

PERFECT FOR SEASONAL USE

EXAMPLES OF DIFFERENT CONFIGURATIONS

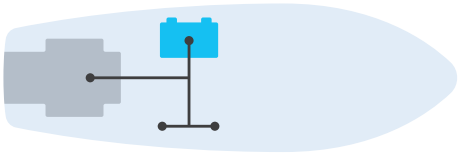
Case A - Engine only

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.



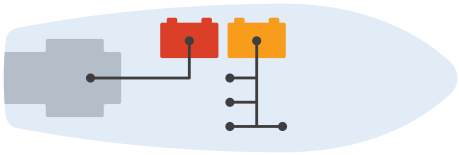
Case B - Engine & Equipment

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.



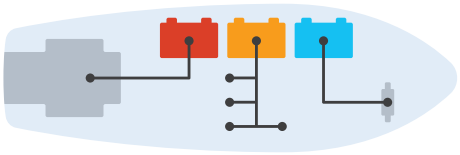
Case C - Engine + Equipment

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.

SELECT THE BEST BATTERY TECHNOLOGY

EQUIPMENT SUPPLY NEED

EQUIPMENT LI-ION

Lithium-Ion technology

Benefits

- Ultra light weight
- Superior cycling
- Up to 50% faster recharging
- Ready to use
- Multiple positions
- Absolutely maintenance free
- Suitable for long resting periods

EQUIPMENT GEL

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

Benefits

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

EQUIPMENT AGM

Absorbent Glass Mat

Benefits

- Superior cycling
- Internal gas recombination
- Maintenance free
- Medium inclination
- Faster recharging

EQUIPMENT

Standard flooded with glass mat separators and plug venting.

Benefits

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

DUAL SUPPLY NEED

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 (cabin safe)
- Safe and clean (spark & spill-proof)

DUAL EFB

Enhanced Flooded Battery

Benefits

- Extra start & supply
- Maintenance free
- Maximum Charge Acceptance

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)

ENGINE START NEED

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 and clean

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

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 LI-ION

Reference: **EV1600**
Energy: **1.600 Wh***
Weight: **15 kg**

EQUIPMENT GEL

Reference: **ES1300**
Energy: **1.300 Wh***
Weight: **39 kg**

DUAL AGM

Reference: **EP900**
Energy: **2 x 900 Wh***
Weight: **2 x 32 kg**

DUAL EFB

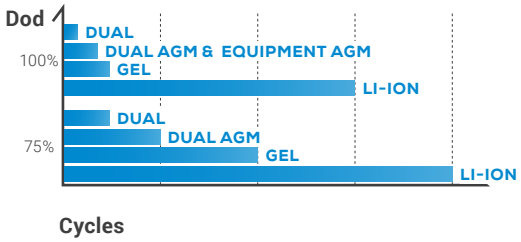
Reference: **EZ600**
Energy: **3 x 600 Wh***
Weight: **3 x 20 kg**

DUAL

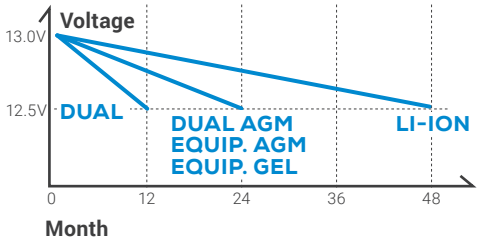
Reference: **ER450**
Energy: **3 x 450 Wh***
Weight: **3 x 23 kg**

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

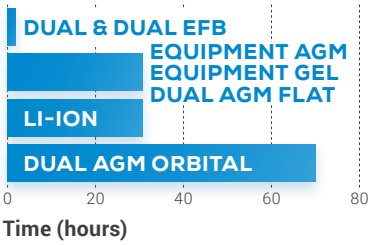
CYCLING PERFORMANCES VS DEPTH OF DISCHARGE AT 20ºC



SHELF LIFE AT 20ºC



VIBRATION RESISTANCE AT 6G/35HZ*



* 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.

TYPE LIST

EQUIPMENT LI-ION

CODE	Technology					Performances			Dimensions			Technical Characteristics				
	GEL	AGM Flat	AGM Orbital	Li-ion	Flooded	Wh*	Capacity Ah (20h)	CCA A (EN)	L (mm)	W (mm)	H (mm)	Polarity	Terminal	Weight (kg)	Box	DNV
EV1600				•		1600	125	–	318	165	215	1	M08	15	27F	

EQUIPMENT GEL

ES 290	•					290	25	–	166	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	–	353	175	190	0	Standard	26	L05	•
ES 950	•					950	85	–	330	171	235	1	Standard	28	D02	•
ES1000-6	•					1000	195 (6V)	–	244	190	275	0	Standard	29	GC2	•
ES1100-6	•					1100	200 (6V)	–	244	190	275	0	Threaded insert	31	GC2	•
ES1200	•					1200	110	–	286	269	230	2	Standard	38	D07	•
ES1300	•					1300	120	–	345	171	283	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	274	240	3	Standard	64	D06	•

EQUIPMENT AGM

EQ600			•			600	70	760	278	175	190	ETN 0	Standard	21	L03	•
EQ800			•			800	95	850	353	175	190	ETN 0	Standard	26	L05	•
EQ1000			•			1000	120	1225	286	269	230	ETN 2	Standard	40	D07	•

EQUIPMENT

ET550					•	550	80	–	278	175	190	0	Standard	21	L03	
ET650					•	650	100	–	353	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	274	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

DUAL EFB

DUAL

CODE	Technology					Performances			Dimensions			Technical Characteristics				
	GEL	AGM Flat	AGM Orbital	Li-ion	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	347	174	238	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	274	240	3	Standard	70	D06	•
EZ600					•	600	70	720	278	175	190	ETN 0	Standard	20	L03	•
EZ650					•	650	75	750	270	173	222	ETN 0	Standard	19	D26	
EZ850					•	850	100	900	353	175	190	ETN 0	Standard	26	L05	•
ER350					•	350	80	510	270	173	222	1	Standard	18	D26	
ER450					•	450	95	650	306	173	222	1	Standard	22	D31	
ER550					•	550	115	760	349	175	235	1	Standard	28	D02	
ER650					•	650	142	850	349	175	285	1	Standard	35	D03	
ER660					•	660	140	750	513	189	223	3	Standard	37	D04	

START AGM

START

CODE	GEL	AGM Flat	AGM Orbital	Li-ion	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	347	174	238	1	SAE M 3/8» taper&stud	31	G31	•
EM1000			•			1000	50	800	260	173	206	1	Standard + Threaded	18	G34	•
EN500					•	500	50	450	207	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	349	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	

COMPLEMENTARY RANGE FOR OLD FITMENTS

VINTAGE

EU72L					•	–	72	640	278	175	190	1	Standard	16	L03	
EU77-6					•	–	77 (6V)	360	215	169	184	0	Standard	18	H02	
EU80-6					•	–	80 (6V)	600	158	165	213	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	
EU200-6					•	–	200 (6V)	1150	398	174	234	0	Twin EN taper posts	28	M06	
EU260-6					•	–	260 (6V)	1300	345	172	286	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.