

# MARINE & LEISURE BATTERY SOLUTIONS

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**POWERING  
YOUR FREEDOM**



# 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

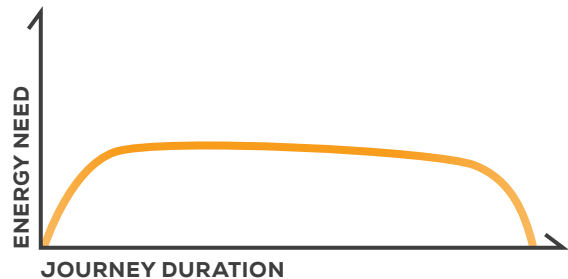
**2 FIND THE RIGHT**  
BATTERY COMBINATION

**3 SELECT THE BEST**  
BATTERY TECHNOLOGY

# IDENTIFY THE BOAT'S ENERGY NEEDS

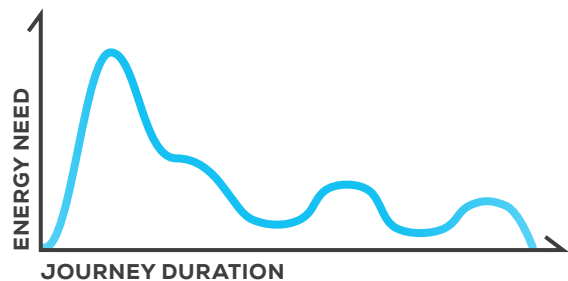
## EQUIPMENT SUPPLY NEED

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\*.



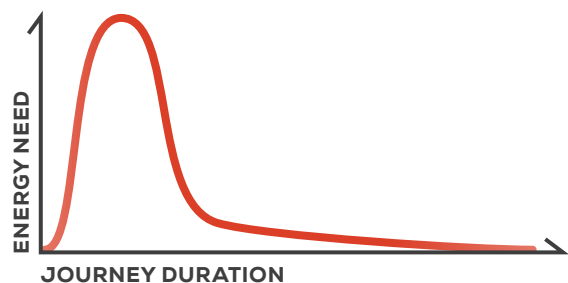
## DUAL SUPPLY NEED

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

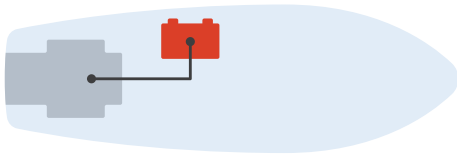
# FIND THE RIGHT BATTERY COMBINATION



## EXAMPLES OF DIFFERENT CONFIGURATIONS

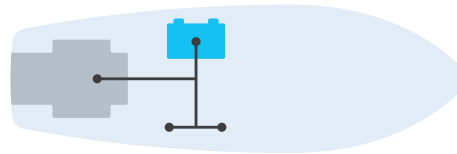
### Case A - Engine only

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.



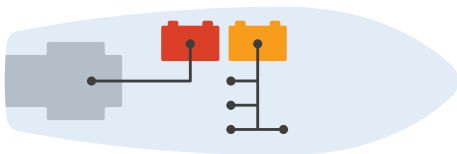
### Case B - Engine & Equipment

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.



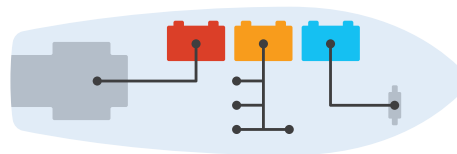
### Case C - Engine + Equipment

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 AGM

Absorbent Glass Mat



#### Benefits

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

### 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

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

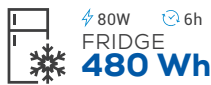


# FINALIZE YOUR CHOICE

BY CALCULATING THE ENERGY REQUIRED IN WATTS PER HOUR

## 1. START BY CALCULATING DEVICE CONSUMPTIONS

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



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**

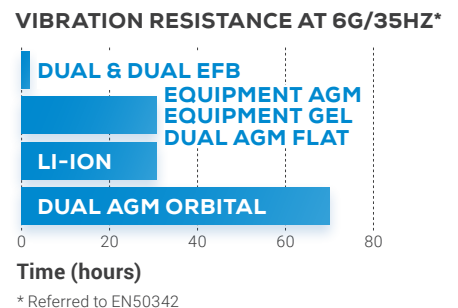
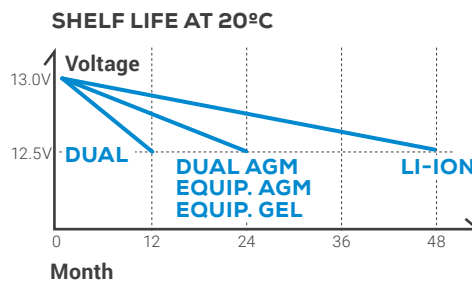
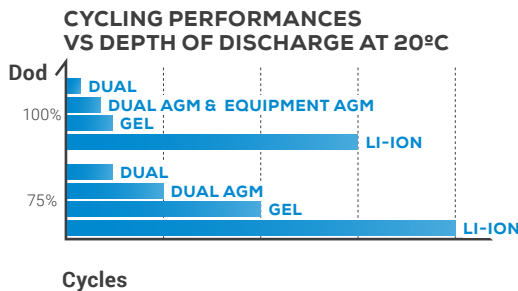
Reference: **EZ600**  
Energy: **3 x 600 Wh\***  
Weight: **3 x 20 kg**



**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



### 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.

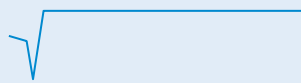


### STANDARD TESTERS

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.

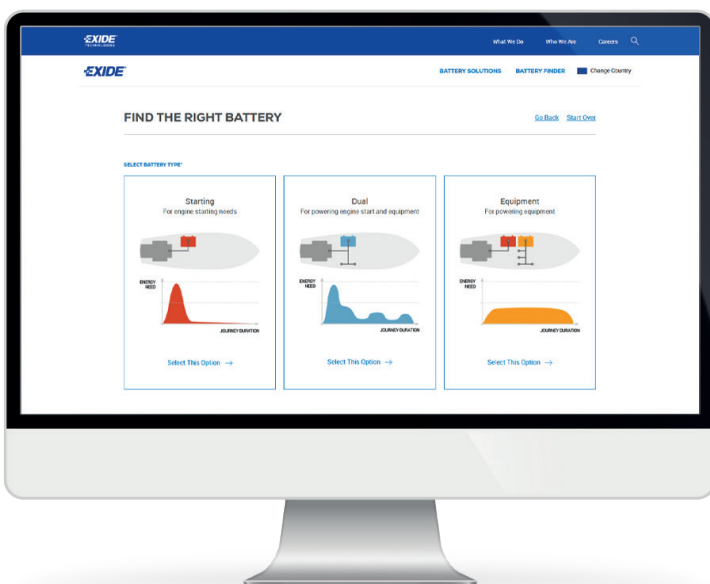


## QR CODE

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

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.exidegroup.com/eu/en/battery-finder/leisure/boat](http://www.exidegroup.com/eu/en/battery-finder/leisure/boat)



# TYPE LIST

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
EV640				•		640	50	-	196	165	174	0	M08	6.5	L20
EV1250				•		1250	96	-	353	175	190	0	Standard	10.7	L05
EV1300				•		1300	100	-	318	165	235	1	M08	11.7	27H
EV1300/24				•		1300	50	-	318	165	215	1	M08	15	G77
EV1600				•		1600	125	-	318	165	215	1	M08	15	27F
EV2500				•		2500	200	-	505	172	255	1	M08	27	F51
EV3800/36				•		3800	100	-	520	269	222	1	M08	39	H52
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
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
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



EQUIPEMENT LI-ION



EQUIPEMENT GEL

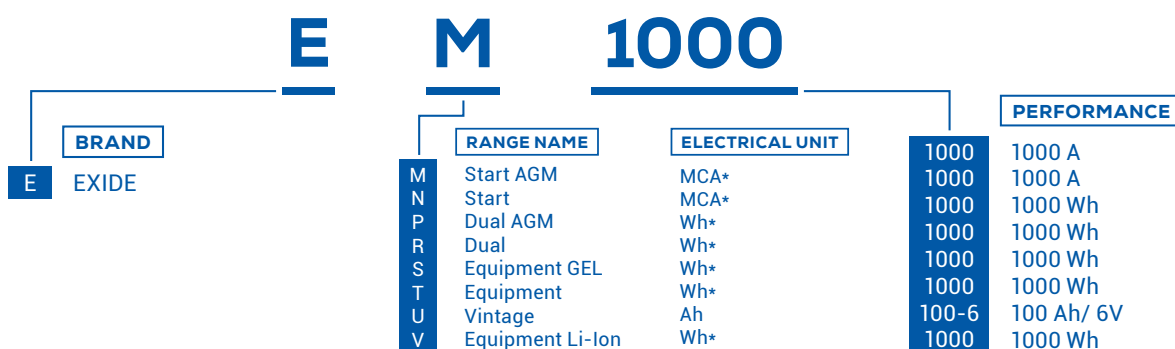


EQUIPEMENT AGM



EQUIPEMENT

## CODE STRUCTURE





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	



DUAL AGM



DUAL EFB



DUAL

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	



START AGM



START

### COMPLEMENTARY RANGE FOR OLD FITMENTS

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](http://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 certified

## EMEA HEADQUARTERS

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