



EXIDE[®]

Batteries



Industrial Cycling Range



INDUSTRIAL CYCLING RANGE

Easy Six Step Selection Guide

It is easy to decide which deep cycle battery you will need and how long it will operate your equipment before recharging is necessary.

STEP 1 Establish the loading of each piece of electrical equipment - this is expressed in watts and is stamped into the compliance plate attached to the electrical item.

Example: Typical 4x4 / Marine Use

Equipment Type	Step 1 Equip Load (Watts)	Step 2 Est. Usage (Hours)	Watts Hours
Radio	20	X 2.0	= 40
Lights	20	X 10.0	= 200
Winch	90	X 0.44	= 40
Fridge	40	X 6.0	= 240
TOTAL			= 520

STEP 2 Determine the length of time (in hours) you intend to operate each piece of equipment between recharges.

Watts x Hours of operation results in Watts hours.

STEP 3 Check the system voltage. (6v, 12V or 24V, 36V, 48V or 72V)

STEP 4 The next step is to determine the "Ampere Hour" (AH) requirement that the battery must accommodate. You calculate this by dividing WATT Hours by the system voltage.

520 Watt Hours ÷ by 12 volts (STEP 3 system voltage) = 43 Ampere hours approximately.

STEP 5 Battery cables are not perfect so it pays to make allowances. A cable loss margin of 10% is usually appropriate and it is always better to have a buffer of extra capacity than what you have calculated, encompassing an over-capacity margin of approximately 25%. If the battery will be required for starting purposes, you will need to increase your ampere hour estimate by 50% to ensure you have sufficient starting power when the battery has been partly discharged. If you foresee constant stopping and starting, you will need to increase your estimate by even more and may need a dual battery system

Ampere hours already estimated	= 43
Plus 10% allowance for cable loss	= 4
Plus 25% over capacity allowance	= 11
Plus 50% vehicle starting margin*	= N/A
TOTAL AH required	= 58

* If only operating a single battery system for a vehicle.

STEP 6 Battery capacity varies according to speed of discharge. The faster the battery is discharging the fewer Ampere hours it will deliver before recharge. Deep cycle batteries carry an Ampere Hours (AH) rating for 3 lengths of discharge time. You need to determine the length of time over which the battery will be discharged. Match as close as possible the time over which the battery will be discharged against the closest rated time of either 2hr, 5hr or 20hr discharge.

Length of time for discharge: 2 hr | 5hr | 20hr

Now refer to Deep cycle battery specification sheet and match the total ampere hour requirements against the chosen discharge time rating.

Flooded Battery Technology

The flooded lead acid battery is the traditional method for manufacturing automotive batteries. The key enhancement of a deep cycle battery is the cast plates that are moulded extra thick. All flooded lead acid batteries have vents that are continuously open to the environment. Flooded batteries generally cannot be operated at an angle greater than 45 degrees. There is free acid surrounding the lead plates within the internals of the battery.

Features

- Thick plate design with high density active material
- Dual post designs included threaded posts
- Envelope separators with Glass Matt
- Up to 12 month warranty available
- Robust case design
- Integrated carry handles
- Cost effective technology


Benefits

- Easy recharge and ideal for repeated cycling use
- For use with multiple cabling attachments to suit a variety of applications
- Helps prevent electrical short and provides a reliable current path that protects against vibration failure for longer battery life
- Reliability in product performance
- Able to withstand harsh environments
- Allows for easy installation and handling
- More affordable for many applications



Heavy Industrial Cycling

- Advanced technology for Heavy Cycling applications
- Ultra thick cast plates

PRODUCT CATEGORY	BATTERY TYPE	V	TECHNOLOGY	CCA	RC	AH	DIMENSION (MM)			WET WEIGHT (KG)	ASSEMBLY	POST TYPE	VENT	LEDGE	HYDRO	BASE WARRANTY (MONTHS)	EXTENDED WARRANTY (MONTHS)
							L	W	H								
	HEAVY INDUSTRIAL CYCLING RANGE																
	DC6V225	6	HYBRID MAINT	-	110	230	261	181	272	31.5	A	TM	ACC	NL	NO	12	N/A
	DC8V150	8	HYBRID MAINT	-	75	165	261	181	276	30.4	D	TM	ACC	NL	NO	12	N/A
	DC12VXC	12	HYBRID MAINT	-	-	155	333	179	289	24.8	D	STD	ACC	NL	NO	12	N/A



Semi-Industrial Cycling

- For solar, boating, 4WD, recreation, golf buggies
- Built for light/semi-cycling applications
- High reserve to run accessories



PRODUCT CATEGORY	BATTERY TYPE	V	TECHNOLOGY	CCA	RC	AH	DIMENSION (MM)			WET WEIGHT (KG)	ASSEMBLY	POST TYPE	VENT	LEDGE	HYDRO	BASE WARRANTY (MONTHS)	EXTENDED WARRANTY (MONTHS)
							L	W	H								



SEMI-INDUSTRIAL CYCLING RANGE

ED12	6	MAINT CYCLING	600	160	95	228	173	204	14.5	A	STD	ACC	NL	NO	12	N/A
ED48	12	MAINT CYCLING	-	103	60	237	172	204	16.5	D	DST	ACC	F&EL	NO	12	N/A
ED50	12	MAINT CYCLING	-	145	80	259	174	222	21.1	D	DST	ACC	NL	NO	12	N/A
ED70	12	MAINT CYCLING	-	170	105	304	173	224	24.8	D	DST	ACC	NL	NO	12	N/A
ED87	12	MAINT CYCLING	-	213	120	330	172	236	27.9	D	STD	ACC	NL	NO	12	N/A

ABBREVIATIONS & BATTERY ASSEMBLIES

ACC Accessible

CV Central Venting

DFA Dual Fit Aligned Terminals

DFP Dual Fit Parallel Terminals

DST Dual System Terminals

EL End Ledge

FDH Fold Down Handles

FL Front Ledge

HE Hydrometer Eye

OLT Offset Lug Terminal

PT Pencil Terminal

RPH Rope Handles

RT Recessed Terminal

RTH Retractable Handles

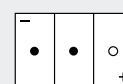
ST Side Terminal

STD Standard Terminal

TM Twin Marine Terminal - Type M

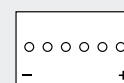
TS Top Stud Terminal

BATTERY ASSEMBLIES

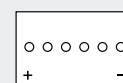


6 VOLT

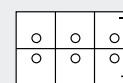
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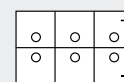
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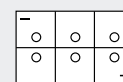
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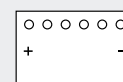
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F



G



H



Recycling

Environmental stewardship and recycling is one of Exide's major strengths.

Did you know that recycling lead acid batteries is an important focus for Exide and a key factor in protecting our environment.

Recycling of lead-acid batteries is one of the most significant and enduring environmental success stories of our time with over 98% of this product being able to be recycled. Through our global Total Battery Management program, Exide collects and recycles sufficient amounts of spent batteries to ensure much of its new production is manufactured using secondary refined lead & plastic.

For battery collection please contact Exide