

MAINTENANCE OF DEEP CYCLE BATTERIES

1. New batteries should be fully charged prior to the first use.
2. New deep cycle batteries may need to be cycled before reaching full capacity (20-100 cycles, depending on type and use).
3. Battery cables should be intact and kept tight at all times. Recommended torque for top tapered terminal posts is 7.9 Newton Meters. After reattaching the cables to the battery terminals (ground cable last), coat the terminals with high temperature grease or petroleum jelly.
4. Vent caps should be in place during vehicle operation and charging. Follow the charger manufacturer's procedures for connecting and disconnecting cables and operation. Turn the charger OFF before connecting or disconnecting cables to the battery.
5. Batteries should be kept clean and free of debris at all times, especially the terminal area.
6. Check the electrolyte level a minimum of once/month during operation. Adjust the electrolyte level before charging to assure that the plates are just covered, no more than 5mm over the separators. After charging, adjust the electrolyte to a level approximately 10mm below the vent well.
7. Use distilled or deionized water to refill batteries. Never add acid to a battery except to replace spilled liquid. Electrolyte impurities of any kind severely shorten the life of a deep cycle battery.
8. For optimum longest battery life, batteries should not be discharged below 80% of their capacity.
9. Battery age effects maintenance. Longer charging times and/or higher finishing current may be required. In addition, older batteries may require more frequent watering.
10. Avoid charging when the battery or ambient temperatures are above 48°C.
11. Periodic equalization may improve battery life. Equalizing charge consists of a long low current charge performed after the normal charge cycle. This charge helps to reduce the effects of electrolyte stratification.
12. When multiple batteries are used in an application, replacement batteries should be the same capacity and age as the original batteries. Using different batteries in the same system disturbs the system balance.
13. Hydrometer readings of each cell are the best indication of overall state of charge. The hydrometer reads the electrolyte density which is an indication of the concentration of sulphuric acid in the electrolyte mixture. Cell to cell specific gravity imbalance may require an equalization charge. If after an equalization charge has been carried out there is still a significant electrolyte imbalance, this may indicate a bad cell. Consult Exide or your Exide dealer for more information.
14. Batteries should be operated at full charge. Continuous operation at low states of charge or prolonged partial states of charge can result in shortened life and reduced capacity.
15. When the batteries are subjected to seasonal use applications, the following precautions should be taken:
 - Fully charge the battery before storage.
 - Remove connections to avoid parasitic drain.
 - Store the battery in a cool place but avoid temperatures consistently below freezing. The electrolyte freezing point drops as the battery's state of charge drops.
 - Boost every other month if possible. If the temperature is >28°C, more frequent recharging may be required.
16. Temperature extremes effect battery capacity and charging. Cold reduces capacity and inhibits charging. Heat increases watering and encourages overcharge.



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INDUSTRIAL

DEEP CYCLE RANGE



For reliable long lasting operation of electrically powered equipment. Including materials handling machines, cleaning equipment, golf carts and other recreational applications such as marine, 4WD and camping. EXIDE INDUSTRIAL DEEP CYCLE is the answer.



MADE IN THE USA "YOU CAN HELP PROTECT THE ENVIRONMENT BY RECYCLING SPENT BATTERIES WITH US". QUALITY CERTIFIED TO ISO 9001 & QS-9000.

SPECIFICATIONS

Exide Industrial Deep Cycle batteries are built to last and deliver power when needed, thereby ensuring maximum life and optimum performance.

Exide Part Number	Volts	CCA	20HR Rate	5HR Rate	1HR Rate	Dimensions	WET WGT KG	Terminals	Applications	Warranty (months)
DC6V225	6		225	185	120	260X181X291#	31.7	SAE/ Steel bolted dual fit	GOLF BUGGY, SWEEPERS & SCRUBBER. SCISSOR LIFT, SOLAR POWER SYSTEMS	12
DC8V150	8		150	122	95	260X181X290	28.8	SAE /Steel bolted dual fit		12
DC6V245	6		245	210	160	260X181X293	30.8	SAE/Steel bolted dual fit		12
DC12V115	12	725	115	91	70	330X173X253	28.7	SAE/Steel bolted dual fit	ENERGY STORAGE FOR DUAL SYSTEMS, 4WD, MARINE, ELECTRIC TAIL GATES. MATERIAL HANDLING	12
DC12V105	12	550	105	83	63	303X167X244	27.9	Twin ter bolted		12
DC12V80	12	400	80	65	52	260X167X244	23.8	Twin terminal SAE/Steel bolted		12
DC12V200	12	800	200			527X280X274	56	SAE/Steel bolted dual fit		12
DC6V305	6		305	241	177	296X180X366	41.0	Lead bolt on	MATERIALS HANDLING, CLEANING EQUIPMENT, ELECTRIC UTILITY VEHICLES	12
DC12V195	12		195	144	101	371X175X374	50.0	Lead bolt on		12
DC6V375	6		375	284	204	296X180X414	51.0	Lead Flag bolt on		12
DC6V250	6		250	206	165	296X180X289	33.4	Lead bolt on		12

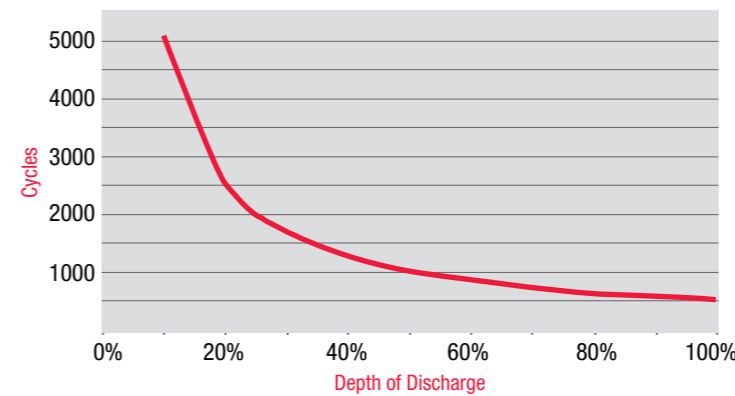
After Jan 09 height changes to 284mm

FEATURES	BENEFITS
<ul style="list-style-type: none"> • Robust case design 	<ul style="list-style-type: none"> • Able to withstand harsh environments
<ul style="list-style-type: none"> • Dual post designs including threaded post 	<ul style="list-style-type: none"> • Handles or handgrips for easy and safe handling & installation
<ul style="list-style-type: none"> • Thick plate design with high density active material 	<ul style="list-style-type: none"> • For use with multiple cabling to suit a variety of applications
<ul style="list-style-type: none"> • Envelope separators with glass matt 	<ul style="list-style-type: none"> • Easy recharge and Ideal for repeated cycling use • Helps prevent electrical shorts and provides a reliable current path • Protects against vibration failure for longer battery life • Faster recharge
<ul style="list-style-type: none"> • Gang vents (some models) 	<ul style="list-style-type: none"> • Make maintenance easy



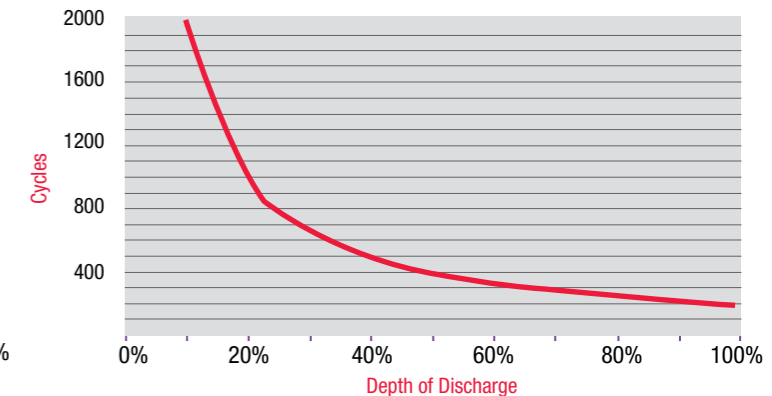
PERFORMANCE DATA

Exide DC6V225



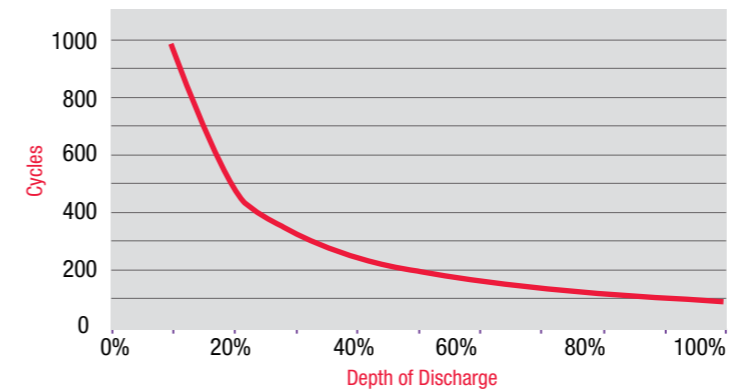
Estimated Cycles to 50% Rated Capacity vs. Depth of Discharge at 75A Rate at 25C

Exide DC12V115



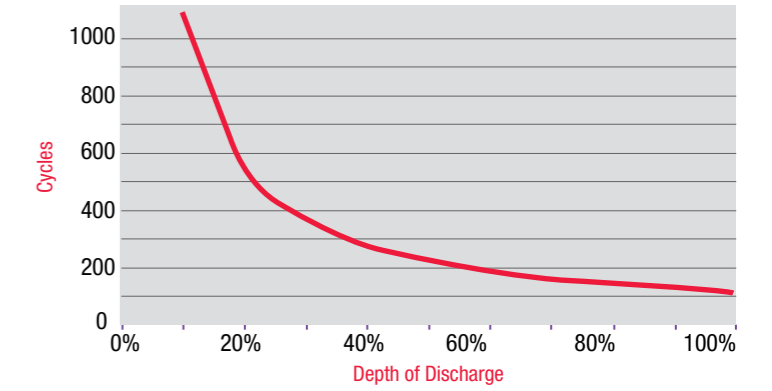
Estimated Cycles to 50% Rated Capacity vs. Depth of Discharge at RC Rate at 25C

Exide DC12V105



Estimated Cycles to 50% Rated Capacity vs. Depth of Discharge at RC Rate at 25C

Exide DC12V80



Estimated Cycles to 50% Rated Capacity vs. Depth of Discharge at RC Rate at 25C

Suggested charging voltages for flooded deep cycle batteries

	12 volt	6 volt	8 volt
Normal charging	14.4-14.8	7.2 – 7.4	9.6 – 9.8
Float	13.5	6.75	9.0
Equalize	15.2	7.6	10.1

