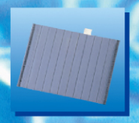
STRUCTURE & CHARACTERISTICS

Low-Resistance Envelope Separators
•encapsulate negative plates
•improve vibration durability
•prevent "treeing" and internal shorting between positive and negative plates



Flame Arrester
•safety system
•prevents possibility of explosion from spark of outside
•minimizes acid-leakage
•prevents inflow of dust

Hydrometer
•at full charge, the electrolyte specific gravity is 1.280 while at 50% of charge considered the minimum serviceable condition, the specific gravity is typically 1.220. In a typical situation when the specific gravity drops to 1.100, the battery is fully discharged.

Heat-Sealed Covers
•prevents leakage and contamination.
•adds to case strength and rigidity.
•include permanent flame arresters to prevent an accidental explosion from external sparks or flame.
•have hydrometer built in for faster checking.

Polypropylene Case
•reinforced design is precisely tailored to support the battery elements for resistance to vibration and road shock damage.
•material is light weight, exceptionally strong, durable and resistant to handling and impact damage.

Wrought Lead-Calcium Grids
•offer considerable strength
•resistant to grid corrosion
•over-charge resistant
•minimal gassing and water usage
•less self-discharge
•resist thermal runaway

Centered Cast-on Plate Straps
•stronger than the thinner gas-burned conventional connectors.
•reduce the lever action movement resulting from road shock.

Exclusive Patented Liquid Gas Separator
•prevents electrolyte losses by collecting electrolyte vapor and returning liquid to the reservoir
•vents allow the battery to "breathe" during temperature changes and charging

Hours of Usable Power (H.U.P)

With the Delkor built-in Hydrometer , a user can see the state of charge but still can't "plan" for the hours of usable power . Delkor will now help plan for this usage by placing an Hours of usable Power table on the DC24, DC27 and DC31 Batteries. By determining the ampere draw of each of the accessories in use, Hours of Usable Power(H.U.P) can be determined. Please refer to the following data.

H.U.P - Hours of Usable Power

DC24		DC27		DC31	
Amp. Draw	H.U.P.	Amp. Draw	H.U.P.	Amp. Draw	H.U.P.
5.0amps.	14.0hrs.	5.0amps.	17.9hrs.	5.0amps.	20.0hrs.
15.0amps.	3.8hrs.	15.0amps.	4.7hrs.	15.0amps.	5.6hrs.
25.0amps.	2.0hrs.	25.0amps.	2.5hrs.	25.0amps.	3.0hrs.

Charging Instructions

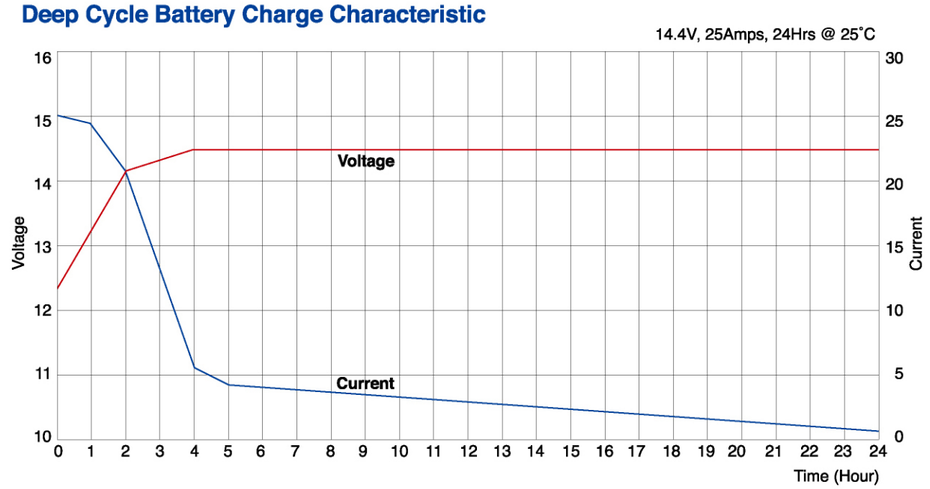
The battery is an energy storage reservoir . When energy is removed from the battery it must be put back by recharging. The amount of energy to be put back depends on how much was taken out. The time it will take depends on the ampere out of the charger used.

The Delkor Marine/R V and Deep Cycle battery has a built-in state-of-charge indicator to show how much energy is left in the battery . A green colored ball or black colored ball may be visible in the indicator. The indicator is also used to determine how long the battery should be recharged as follow;

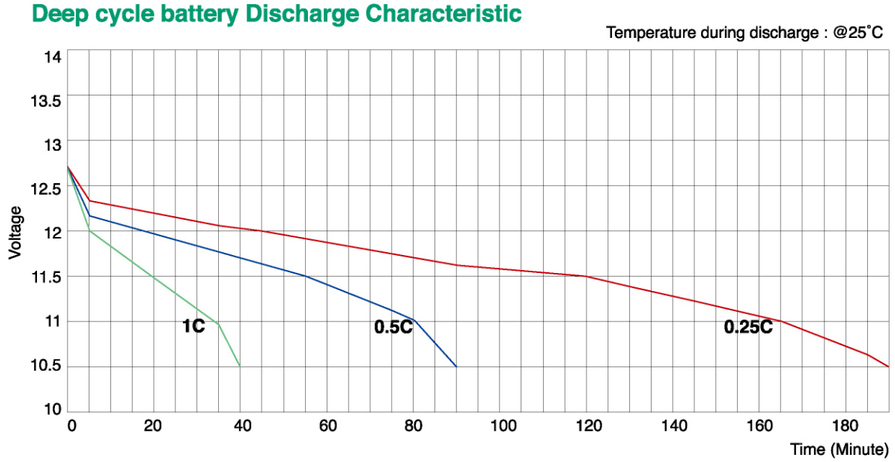
Indicator Color	Black		Green
State - of - Charge	Below 50%	50 - 70%	Above 70%
Minimum Charge Time	24Hours	12Hours	8Hours

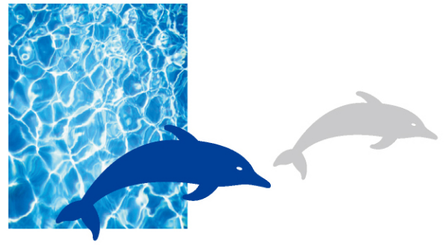
* Temperature during charge : 60˚F to 80˚F
* Charging ampere : 0.1C
* Recharge battery each use
* Keep battery in a cool place when storing for long periods (make sure battery is fully charged)

Deep Cycle Battery Charge Characteristic



Deep cycle battery Discharge Characteristic





Marine / RV

R&D Center

BCI Group Size	Catalog Number	Terminal Type	Amps For Load Test	Reserve Capacity (Minutes)	Cold Cranking S. A. E. Spec. J537H	Cranking Amps.	Dimensions (mm)				Approx. Weight (Kg)
					@0˚F (-18˚C)	@32˚F (0˚C)	Length (Incl. Flanges)	Width	Hight	Total Hight (Incl. Top Posts)	
24	M24	SAE Posts / Wing Nut	250	115 (65AH / 20HR)	500	620(MCA)	275	172	203	229	19.3
27	M27	SAE Posts / Wing Nut	285	145 (80AH / 20HR)	570	720(MCA)	320	172	203	229	22.5
31	M31	SAE Posts / Wing Nut	310	180 (100AH / 20HR)	625	790(MCA)	330	172	208	234	26.8

Deep Cycle

R&D Center

BCI Group Size	Catalog Number	Terminal Type	Reserve Capacity (Minutes)	Dimensions (mm)				Approx. Weight (Kg)
				Length (Incl. Flanges)	Width	Hight	Total Hight (Incl. Top Posts)	
24	DC24	SAE Posts / Wing Nut	120 (70AH/ 20HR)	275	172	203	229	20.3
27	DC27	SAE Posts / Wing Nut	150 (80AH/ 20HR)	320	172	203	229	23.7
31	DC31	SAE Posts / Wing Nut	180 (100AH/ 20HR)	330	172	208	234	27.0

www.delkor.com

Delkor *Corporation*

Delkor

CALCIUM MF BATTERY

Delkor

Delkor corporation is a joint venture company of DELPHI Automotive System. Delkor was established on October 22, 1985 as a producer of maintenance -free automotive batteries, utilizing licensed product design and manufacturing technology. This world class technology includes wrought grid construction of a non -antimony, lead-calcium alloy that gives unprecedented battery performance and unparalleled customer value.

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