US 8VHATB XC2 - DATA SH DEEP CYCLE ISTED DEEP CYCLE BATTERY SINC **a** 2



Application: Wherever Deep Cycle 8-volt batteries are needed. Dimensions: 10-1/4 (260)L x 7-1/8 (181)W x 11-7/8 (302)H **Type:** Flooded Lead Acid (FLA) non-sealed.

Case material: Polypropylene / Heat Sealed

US 8VHATB XC2 - SPECIFICATIONS																				
BCI												Standard	AMP	MINUTES	MINUTES	MINUTES				wet
Group	Model	1-hr	2-hr	5-hr	6-hr	10-hr	20-hr	48-hr	72-hr	100-hr	Voltage	Terminal	HOURS	@	@	@	Length	Width	Height	Weight
Size		Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		Туре	(20 HR. RATE)	75 AMPS	56 AMPS	25 AMPS	10 1/4	7 1 /0	11 7/0	Lbs (kg)
																	10-1/4		11-7/8	
GC8H	US 8VH ATB	128	145	170	177	188	205	216	221	225	8	UTL	205	115	164	435	(260)	(181)	(302)	73 (33)

TERMINAL OPTIONS:





VENT CAP OPTIONS:

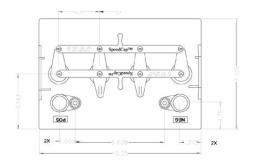


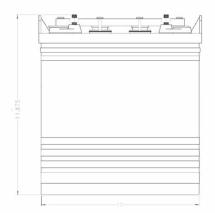


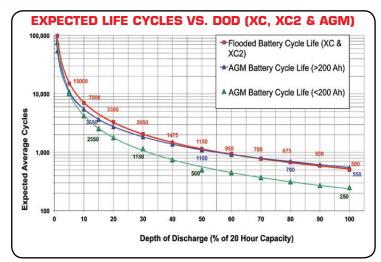
CHARGING INSTRUCTIONS:

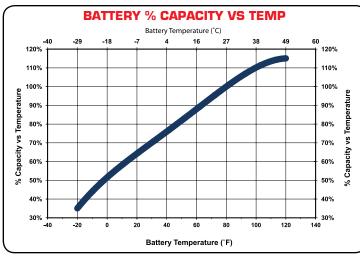
Following is the charging recommendation and charging profile using 2 stage chargers for US Battery deep cycle products. *Equalization and float charge modes are not considered to be one of the stages in a charging profile.

1. 2.	Bulk Charge Absorption Charge	Constant current @~10% of C/20 Ah in amps to 2.45+/-0.05 volts per cell (e.g. 7.35 volts +/-0.15 volts per 6 volt battery) Constant voltage (2.45+/-0.05 vpc) to 3% of C/20 Ah in amps then hold for 2-3 hours and terminate charge Charge termination can be by maximum time (2-4 hr) or dV/dt (4 mv/cell per hour) Constant voltage 2.17 vpc (6.51 volts per 6 volt battery) for unlimited time Constant voltage (2.55+/-0.05 vpc) extended for 1-3 hours after normal charge cycle (repeat every 30 days)								
	(Optional Float Charge) Equalization Charge									
	Notes:	Charge time from full discharge is 9-12 hours. Absorption charge time is determined by the battery but will usually be ~3 hours at 2.45 volts per cell. Float time is unlimited at 2.17 volts per cell. Specific gravity at full charge is 1.270 minimum								
	Battery temperature adjust	nent: reduce the voltage by 0.028 Volts per cell for every 10°F above 80°F, increase by the same amount for temperatures below 80°F.								
	This extra charge helps keep Manually timed chargers show	need to be equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. elps keep all cells in balance. Actively used batteries should be equalized once per month. rgers should have the charge time extended approximately 3 hours. olled chargers should be unplugged and reconnected after completing a charge.								











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US 8VHATB XC2 - DATA SHEET

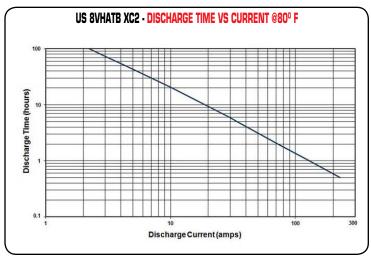
Deep Cycle 8 -Volt

U.S. Battery Recommended Terminal Torque and Connection Hardware								
U.S. Battery Terminal Type	Recommended Torque (in-lb)	Recommended Torque (ft-lb)	Recommended Connection Hardware					
UTL	95-105	7.9-8.8	¹ SS Hexnut with Lock Washer					
UT	95-105	7.9-8.8	¹ SS Hexnut with Lock Washer					
Flat Block	95-105	7.9-8.8	¹ SS Hexnut with Lock Washer					
Dual	95-105	7.9-8.8	^{1/6} SS Hexnut with Lock Washer					
DC Marine	95-105	7.9-8.8	² SS Hexnut with Lock Washer					
Off-Set "S"	100-120	8.3-10	³ Zn or SS Bolt w/Hexnut & Lock Washer					
Flag	100-120	8.3-10	⁴ Zn or SS Bolt w/Hexnut & Lock Washer					
Large "L"	100-120	8.3-10.0	⁴ Zn or SS Bolt w/Hexnut & Lock Washer					
Small "L"	100-120	8.3-10.0	⁴ Zn or SS Bolt w/Hexnut & Lock Washer					
Bus Lug	120-180	10.0-15.0	⁵ SS Hexnut with Lock Washer					
SAE	50-70	4.2-5.8	⁶ No Hardware Supplied					
Proper connection is to position a lock washer between the nut and the connector								

(never between the connector and lead terminal) and apply the recommended torque or enough torque to completely compress the lock washer without deforming the lead terminal.

¹Stainless Steel Hexnut with Stainless Steel Split-Ring Lock Washer (5/16" Positive & Negative) ²Stainless Steel Hexnut with Stainless Steel Split-Ring Lock Washer (3/8" Positive & 5/16" Negative) ³Square-Head, SS or Zinc-Plated Bolt with SS or Zinc-Plated Hexnut & Split-Ring Lock Washer ⁴Square-Head or Hex-Head, SS or Zinc-Plated Bolt with SS or Zinc-Plated Hexnut & Split-Ring Lock Washer ⁴Stainless Steel Hexnut with SS Split-Ring Lock Washer (1/2" Positive or 3/8" Positive & 3/8" Negative) ⁶No Hardware Supplied - Application Uses SAE Clamp for Positive & Negative Tapered Post

lote: The use of flanged nuts and other types of nuts with captive washers or other hardware not listed above is not recommended by US Battery and their use may void the battery warranty.



U.S. Battery Operating Temperature Guidelines

For charging, we recommend staying within 0°F to 120°F (-18 to 49°C) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.

For discharging, we recommend -20°F to 120°F (-29 to 49°C). Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing.

Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal run-away" which may lead to an explosion or fine. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

Data references within this publication are nominal and should not be considered or construed as maximum or minimum values for specifications or for final design. Data for this product type and model may varyfrom what is shown in this publication, and U.S. Battery/Mfg., Co. makes Nowarranties, expressed or implied based on the data within this publication.

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For more information or questions, please visit **WWW.USBATTERY.COM**