

DATA SHEET Deep Cycle 8 -Volt

US 8VGCE XC2, US 8VGCE XC2, US 8VGC XC2, US 8VGCHC XC2

US 8VGC XC2 (US 8VGCi XC2 cover option also available)

US 8VGCHC XC2

Application: Wherever Deep Cycle 8-volt batteries are needed.

omnan

Dimensions: 10-1/4 (260)L x 7-1/8 (181)W x 11-1/4 (286)H

Type: Flooded Lead Acid (FLA) non-sealed.



Case material: Polypropylene / Heat Sealed

US 8VGCE XC2, US 8VGC XC2, US 8VGCHC XC2 - SPECIFICATIONS																				
BCI Group Size	Model	1-hr Rate	2-hr Rate	5-hr Rate		10-hr Rate						Standard Terminal Type	HOURS	MINUTES @ 75 AMPS	@	MINUTES @ 25 AMPS	Length	Width	Height	Wet Weight Lbs (kg)
GC8	US 8VGCE XC2	90	105	129	132	142	155	164	169	172	8	UTL	155	75	110	312	10.1/4	7 1 /0		60 (27)
	US 8VGC XC2 US 8VGCHC XC2	96 109	111 124	133 147	138 152	151 164	170 183	180 194	185 199	189 203	8 8	Molded-In UTL UTL	170 183	82 95	118 136	325 365	10-1/4 (260)	7-1/8 (181)	11-1/4 (286)	62 (28) 67 (30)

TERMINAL OPTIONS:

UΤ

OFF-SET "S

SAE

Available only on US 8VGC

UTL

I ABGE

VENT CAP OPTIONS: SpeedCap®

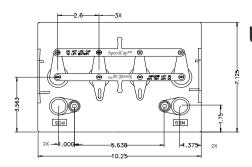


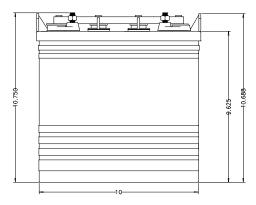


CHARGING INSTRUCTIONS:

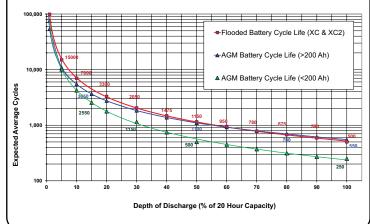
Following is the charging recommendation and charging profile using 2 stage chargers for US Battery deep cycle products. *Equalization and float charge modes are not considered to be one of the stages in a charging profile.

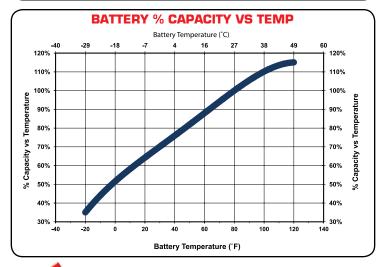
1. 2.	Bulk Charge Absorption Charge	Constant current @~10% of C/20 Ah in amps to 2.45+/-0.05 volts per cell (e.g. 7.35 volts +/-0.15 volts per 6 volt battery) Constant voltage (2.45+/-0.05 vpc) to 3% of C/20 Ah in amps then hold for 2-3 hours and terminate charge Charge termination can be by maximum time (2-4 hr) or dV/dt (4 mv/cell per hour)								
	(Optional Float Charge) Equalization Charge	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)								
	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 adjustme	nt: 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.								
	eep cycle batteries need to be equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. his extra charge helps keep all cells in balance. Actively used batteries should be equalized once per month. anually timed chargers should have the charge time extended approximately 3 hours. utomatically controlled chargers should be unplugged and reconnected after completing a charge.									





EXPECTED LIFE CYCLES VS. DOD (XC, XC2 & AGM)







1675 Sampson Avenue Corona, CA 92879 (800) 695-0945 1895 Tobacco Road Augusta, GA 30906 (800) 522-0945

 toad
 717 North Belair Rd.

 906
 Evans, GA 30809

 45
 (888) 811-0945



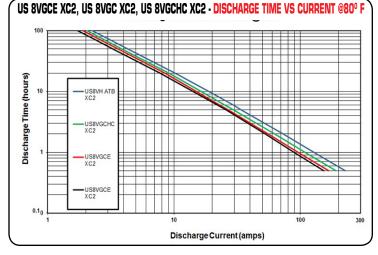
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U.S. Battery Recommended Terminal Torque and Connection Hardware									
U.S. Battery Terminal Type	Recommended Torque (in-lb)	Recommended Torque (ft-lb)	Recommended Connection Hardware						
UTL	95-105	7.9-8.8	¹ SS Hexnut with Lock Washer						
UT	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	5SS 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 O°F to120°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.

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