

US 8VGCE XC2, US 8VGC XC2, US 8VGCHC XC2 - SPECIFICA

100-hr Voltage

8

8

8

US 8VGC XC2 105 GC8 US 8VGCHC XC2 109 **TERMINAL OPTIONS:**

Model

US 8VGCE XC2

1-hr

Rate

89

2-hr

Rate

105

118

124

BCI

Group

Size

GC8

GC8





6-hr

Rate

133

142

5-hr

Rate

129

138

147 152 10-hr

Rate Rate

142 155

153

164 183

20-hr

170

48-hr 72-hr

Rate

164 169 172

180 185 189

194

Rate Rate

199 203

VENT CAP OPTIONS:

Standard

Terminal

Type

UTL

UTL

UTL

AMP

HOURS

(20 HR. RATE)

155

170

183



Case material: Polypropylene / Heat Sealed

MINUTES

0

56 AMPS

110

128

136

MINUTES

@

25 AMPS

312

337

365

Length

10-1/4

(260)

Width

(181)

Height

(286)

7-1/8 11-1/4

MINUTES

0

75 AMPS

75

90

95



wet

Weight

Lbs (kg)

60 (27)

64 (29)

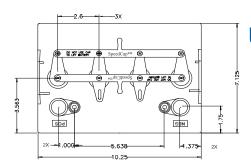
67 (30)

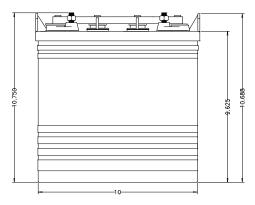


CHARGING INSTRUCTIONS:

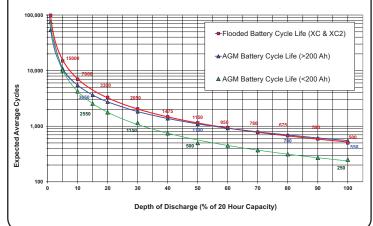
Following is the charging recommendation and charging profile using 2 stage chargers for US Battery deep cycle products. *Equalization and float charge modes are not considered to be one of the stages in a charging profile.

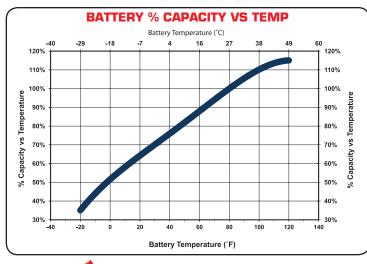
1. 2.	Bulk Charge Absorption Charge	Constant current @~10% of C/20 Ah in amps to 2.45+/-0.05 volts per cell (e.g. 7.35 volts +/-0.15 volts per 6 volt battery) Constant voltage (2.45+/-0.05 vpc) to 3% of C/20 Ah in amps then hold for 2-3 hours and terminate charge Charge termination can be by maximum 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:	ge time from full discharge is 9-12 hours. rption charge time is determined by the battery but will usually be ~3 hours at 2.45 volts per cell. time is unlimited at 2.17 volts per cell. ific gravity at full charge is 1.270 minimum			
Battery temperature adjustment:		ment: 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.			
	Deep cycle batteries need to be equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. This extra charge helps keep all cells in balance. Actively used batteries should be equalized once per month. Manually timed chargers should have the charge time extended approximately 3 hours. Automatically 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

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

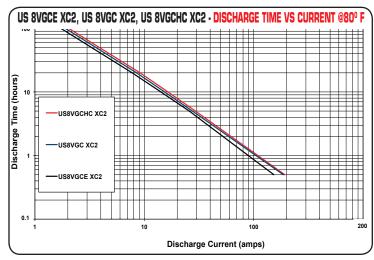
DATA SHEET Deep Cycle 8 -Volt

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 co	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.

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

Note: 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.

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