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

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

US 8VGCE XC2

US 8VGCHC XC2



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

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 MINUTES | MINUTES | MINUTES Standard Wet 6-hr | 10-hr | 20-hr | 48-hr | 72-hr | 100-hr | Voltage | Terminal Model 1-hr 5-hr Length | Width | Height | Group **HOURS** Weight Rate Rate Rate | Rate | Rate | Rate | Size Rate Rate (20 HR. RATE) 75 AMPS 56 AMPS | 25 AMPS Lbs (kg) Type US 8VGCE XC2 90 105 129 132 142 | 155 | 164 | 169 UTL 155 110 312 60 (27) 10-1/4 7-1/8 111-1/4 Molded-In UTL 62 (28) GC8 US 8VGC XC2 133 138 | 151 | 170 111 180 | 185 189 118 325 170 (181)(286)(260)365 US 8VGCHC XC2 124 152 199 67 (30) 109 164 183 194 UTL 183 136

SpeedCap®

TERMINAL OPTIONS:



LARGE "L"



SMALL "L"





SAE



(not avlailable on US 8VGCi)

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.

Bulk 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 Absorption Charge

Charge termination can be by maximum time (2-4 hr) or dV/dt (4 mv/cell per hour)

 (Optional Float Charge) Constant voltage 2.17 vpc (6.51 volts per 6 volt battery) for unlimited time

Equalization Charge Constant voltage (2.55+/-0.05 vpc) extended for 1-3 hours after normal charge cycle (repeat every 30 days)

> Charge time from full discharge is 9-12 hours. Notes:

> > 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

reduce the voltage by 0.028 Volts per cell for every 10°F above 80°F, increase by the same Battery temperature adjustment: 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.

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	1/6SS 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)

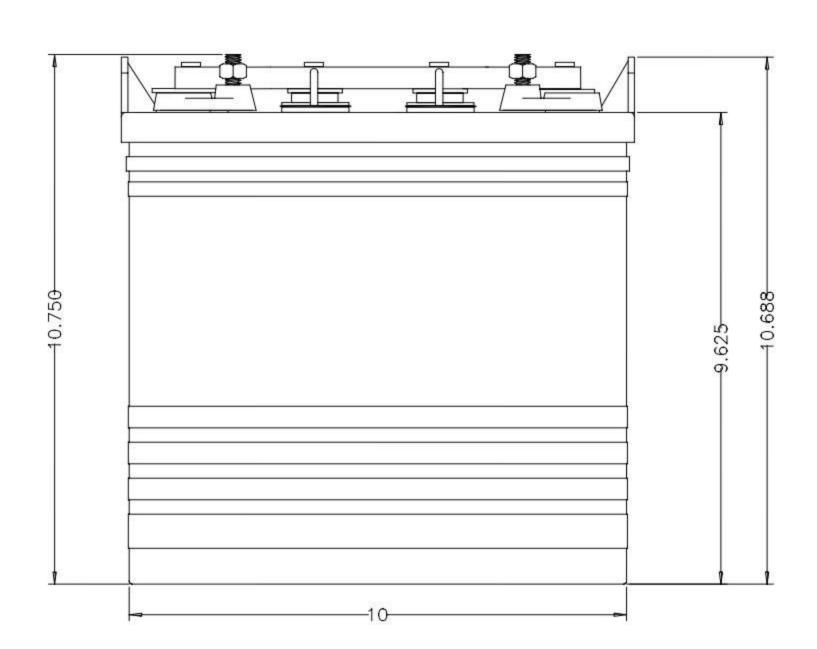
³Square-Head, SS or Zinc-Plated Bolt with SS or Zinc-Plated Hexnut & Split-Ring Lock Washer

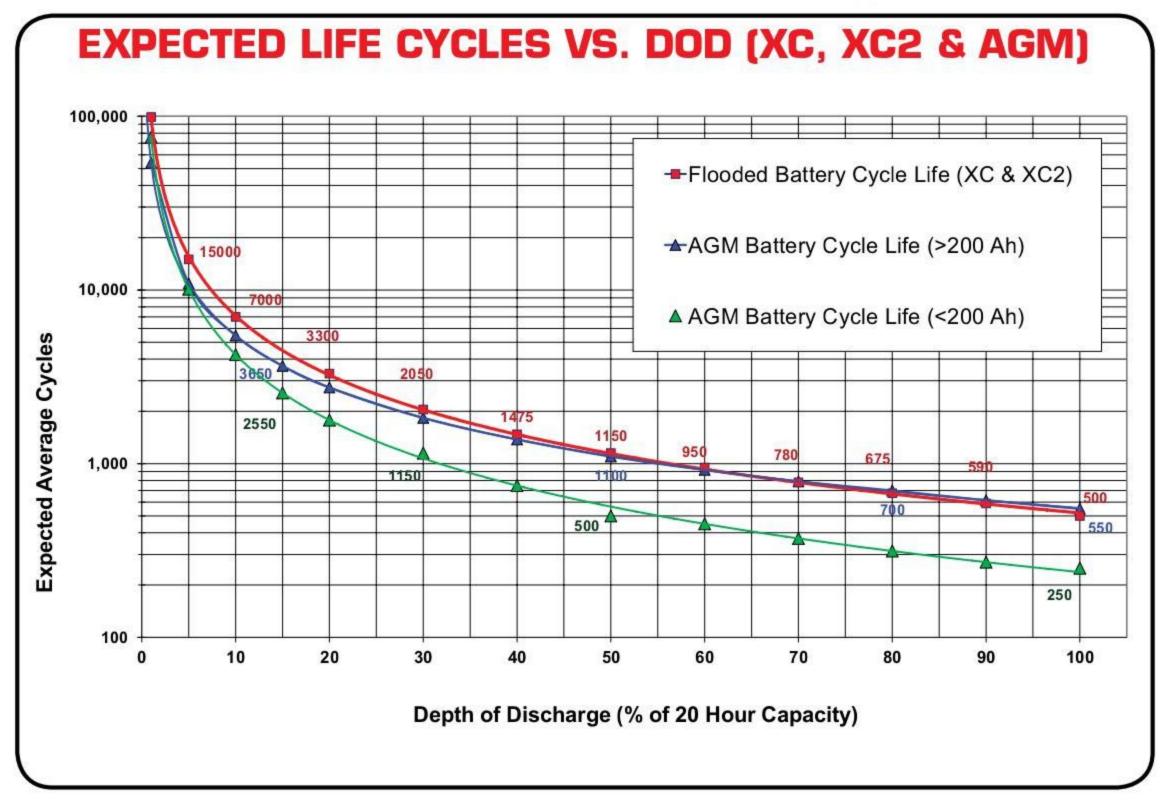
⁴Square-Head or Hex-Head, SS or Zinc-Plated Bolt with SS or Zinc-Plated Hexnut & Split-Ring Lock Washer

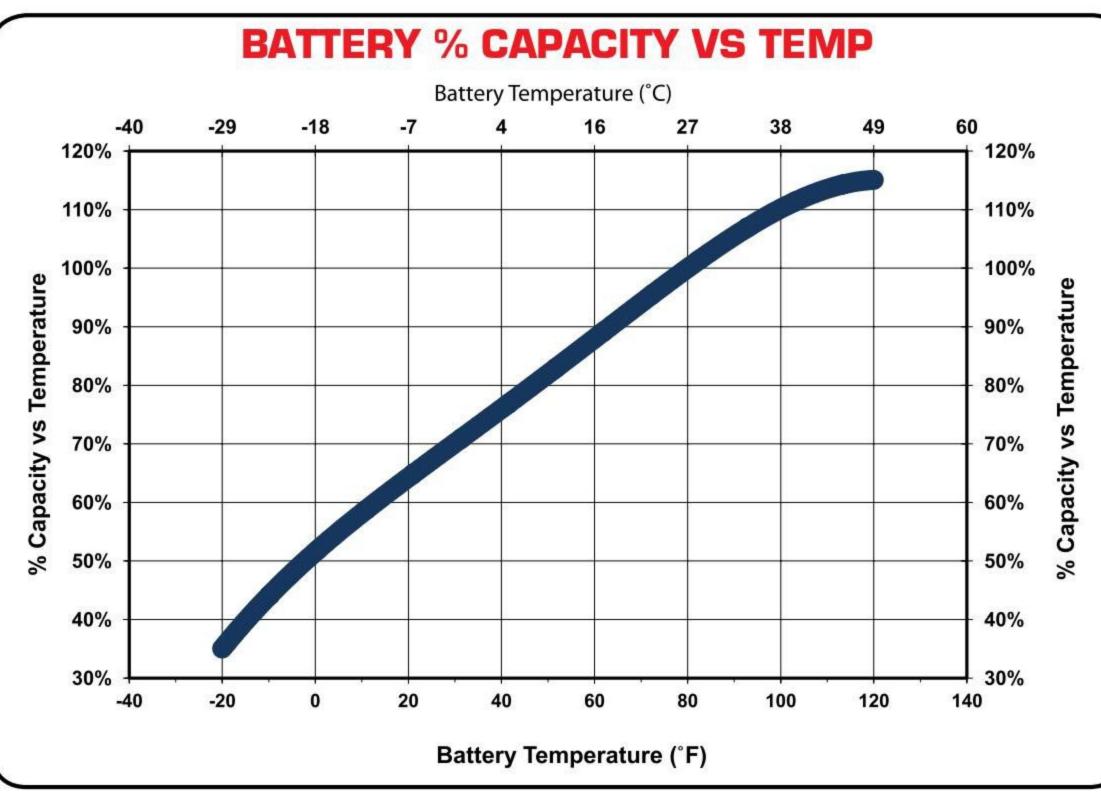
⁵Stainless Steel Hexnut with SS Split-Ring Lock Washer (1/2" Positive or 3/8" Positive & 3/8" Negative)

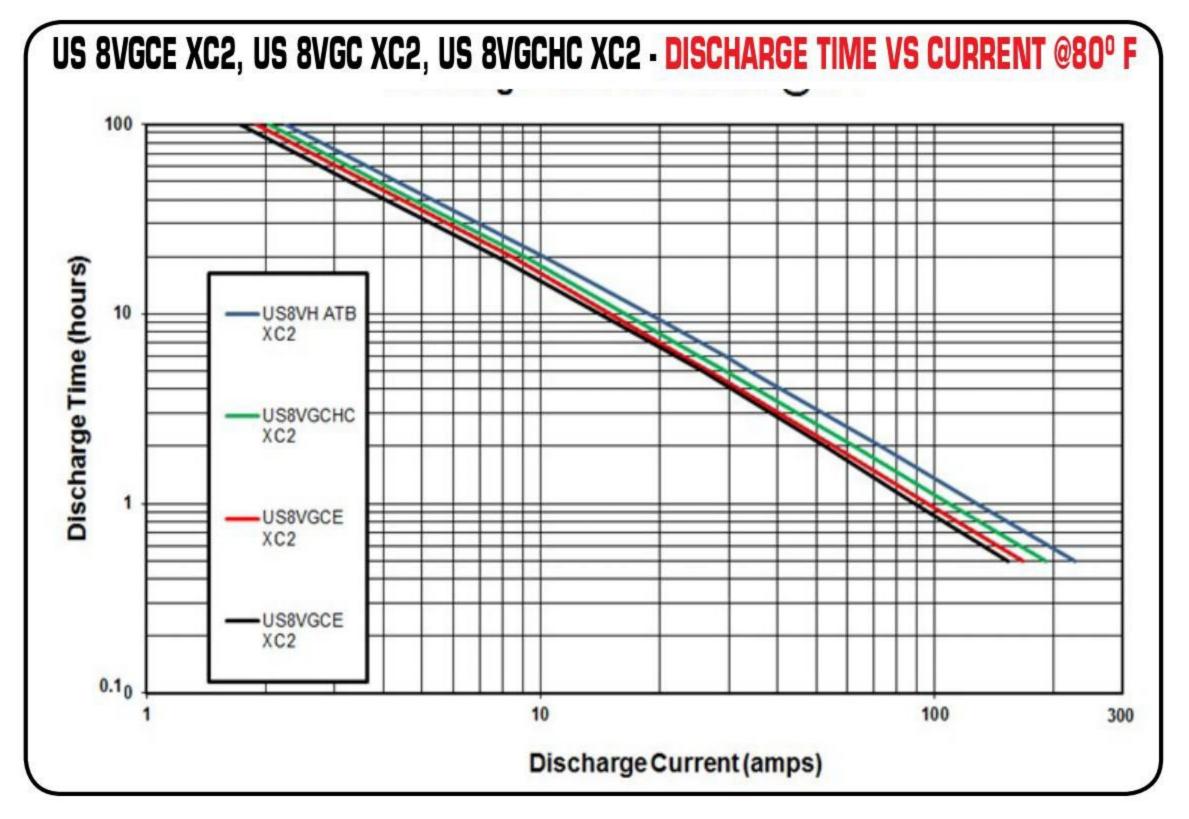
⁶No Hardware Supplied - Application Uses SAE Clamp for Positive & Negative Tapered Post

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 O°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 fire. 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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