

2.	Absorption Charge	(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	ent: 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 shou	e equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. all cells in balance. Actively used batteries should be equalized once per month. uld have the charge time extended approximately 3 hours. gers should be unplugged and reconnected after completing a charge.

## US 12VRX XC2 - DATA SHEE1

Deep Cycle 12 -Volt

**Recommended Connection** 

Hardware

<sup>3</sup>Zn or SS Bolt w/Hexnut & Lock Washer <sup>4</sup>Zn or SS Bolt w/Hexnut & Lock Washer

<sup>4</sup>Zn or SS Bolt w/Hexnut & Lock Washer

<sup>4</sup>Zn or SS Bolt w/Hexnut & Lock Washer

<sup>1</sup>SS Hexnut with Lock Washer

**1SS Hexnut with Lock Washer** 

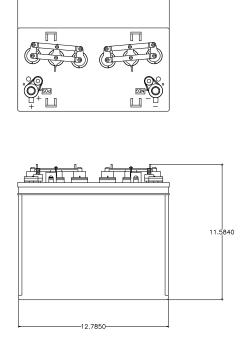
1SS Hexnut with Lock Washer

1SS Hexnut with Lock Washer

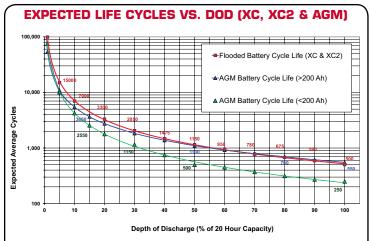
1/6SS Hexnut with Lock Washer

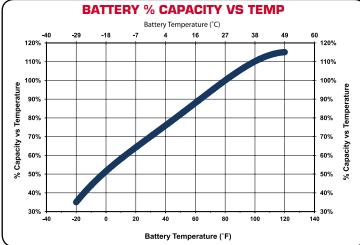
2SS Hexnut with Lock Washer

**5SS Hexnut with Lock Washer** 

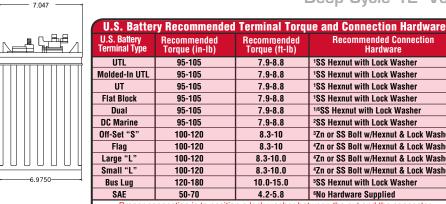


13.125





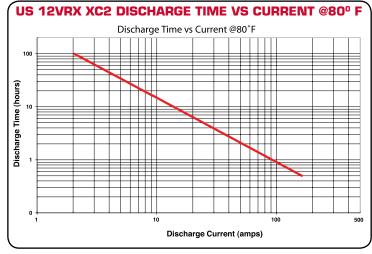




<sup>6</sup>No Hardware Supplied Proper connection is to position a lock washer between the nut and the connector (never between the connector and lead terminal) and apply the recommended torque or enough torgue to completely compress the lock washer without deforming the lead terminal.

Stainless Steel Hexnut with Stainless Steel Split-Ring Lock Washer (5/16" Positive & Negative) <sup>2</sup>Stainless Steel Hexnut with Stainless Steel Split-Ring Lock Washer (3/8" Positive & 5/16" Negative <sup>3</sup>Square-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 <sup>5</sup>Stainless Steel Hexnut with SS Split-Ring Lock Washer (1/2" Positive or 3/8" Positive & 3/8" Negative <sup>6</sup>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 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 (O°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.

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 vary from what is shown in this publication, and U.S. Battery Mfg., Co. makes No warranties, expressed or implied based on the data within this publication.

©2019 U.S. Battery Mfg., Co. All rights reserved. U.S Battery is not liable for damages that may occur from any information provided in or omitted from this publication, under any circumstances. U.S. Battery Mfg., Co. reserves the right to make changes or adjustments to this publication at any time without notices or obligations.

## Mackay ph 4957 6123 | Townsville ph 4774 7344

www.a1batterypro.com.au