

US L16N XC2 - DATA SHEET



Application: Wherever Deep Cycle 6-volt batteries are needed. (With Handles) Dimensions: 12-1/8 (308)L x 6-7/8 (174)W x 16-1/2 (418)H (Without Handles) 11-9/16 (294)L x 6-7/8 (174)W x 16-1/2 (418)H

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



Case material: Polypropylene / Heat Sealed

	US L16N XC2 - SPECIFICATIONS																			
BCI Group Size	Model	1-hr Rate	2-hr Rate				20-hr Rate	-		100-hr Rate	Voltage	Standard Terminal Type	AMP Hours (20 hr Rate)	Minutes @ 75 AMPS	Minutes @ 56 AMPS	@	Length with handles (mm)	Width (mm)	Height (mm)	Wet Weight Lbs. (kg)
903	US L16N XC2	220	251	297	307	337	385	408	419	428	6	Molded-in Offset "S"	385	225	322	865	12-1/8 (308)	6-7/8 (174)	16-1/2 (418)	105.5 (47.9)





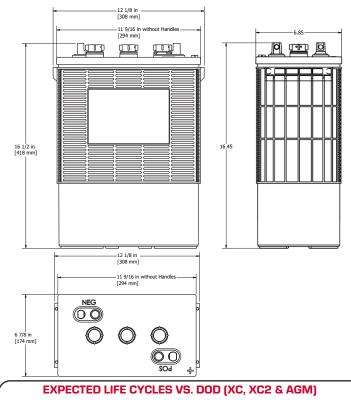


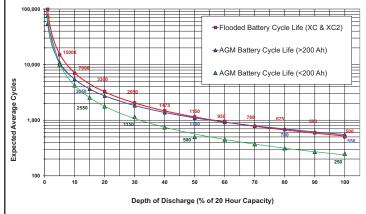
CHARGING INSTRUCTIONS:

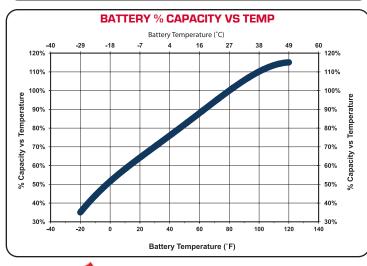
Following is the charging recommendation and charging profile using 2 stage chargers for US Battery deep cycle products. *Equalization and float charge modes are not considered to be one of the stages in a charging profile.

	ulk Charge osorption Charge	nstant current @~10% of C/20 Ah in amps to 2.45+/-0.05 volts per cell g. 7.35 volts +/-0.15 volts per 6 volt battery) Instant voltage (2.45+/-0.05 vpc) to 3% of C/20 Ah in amps then hold for 2-3 hours and terminate charge large termination can be by maximum time (2-4 hr) or dV/dt (4 mv/cell per hour)							
	otional Float Charge) ualization 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 ce Float time is unlimited at 2.17 volts per cell. Specific gravity at full charge is 1.270 minimum									
Batte	ery temperature adjustr	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 Manu	extra charge helps keep ually 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. all have the charge time extended approximately 3 hours.							

Automatically controlled chargers should be unplugged and reconnected after completing a charge.









1675 Sampson Avenue Corona, CA 92879 (800) 695-0945

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Deep Cycle 6 -Volt

U.S. Battery Recommended Terminal Torque and Connection Hardware									
U.S. Battery R Terminal Type	commended Torque (in-lb)	Recommended Torque (ft-lb)	Recommended Connection Hardware						
UTL	95-105	7.9-8.8	¹ SS Hexnut with Lock Washer						
Molded-In 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

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)

Note that the stainless Steel Split-Ring Lock Washer (1/2" Positive or 3/8" Positive & 3/8" Negative)

Note that the stainless Steel Split-Ring Lock Washer (1/2" Positive Tapered Post

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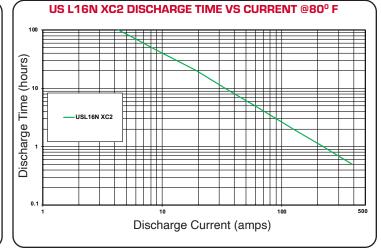
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e: The use of flanged nuts and other types of nuts with captive washers or other hardware not listed above is not recommended by US Battery and their use may void the battery warranty.



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 im-

mediately 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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> 1895 Tobacco Road Augusta, GA 30906 (800) 522-0945

717 North Belair Rd. Evans, GA 30809 (888) 811-0945

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