US L16E XC2, US L16 XC2, US L16HC XC2

DATA SHEET Deep Cycle 6 -Volt





Application: Wherever Deep Cycle 6-volt batteries are needed.

Dimensions: 11-7/8 (302)L x 7-1/8 (181)W x 16-3/4 (425)H

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



Case material: Polypropylene / Heat Sealed

	5 L'168			, L	12		16			, L	12	L-` (DHC	XU	2 - 2	PE	•IFI	GA		112
BCI Group Size	Model	1-hr Rate	2-hr Rate	5-hr Rate			20-hr Rate				Voltage	Standard Terminal Type	HOURS	MINUTES @ 75 AMPS	@	@	Length	Width	Height	wet Weight Lbs (kg)
903	US L16E XC2	193	223	270	281	312	360	381	391	400	6	Large "L"	360	198	287	795	11-7/8	7 1/0	16 2/4	104 (47)
903	US L16 XC2	220	251	297	307	337	385	408	419	428	6	Large "L"	385	225	322	865				110 (50)
903	US L16HC XC2	239	272	323	335	368	420	445	457	467	6	Large "L"	420	250	358	965	(302) (181)) (425)	118 (54)	

US L16HC XC2



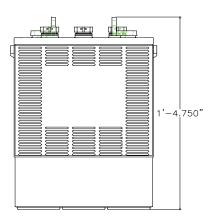


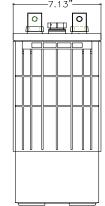
CHARGING INSTRUCTIONS:

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.	Bulk Charge	(e.g. 7.35 volts \pm /-0.15 volts per 6 volt battery)
2.	Absorption Charge	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 adjust	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.
	This extra charge helps keep Manually timed chargers sho	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 L16E XC2, US L16 XC2, US L16HC XC2





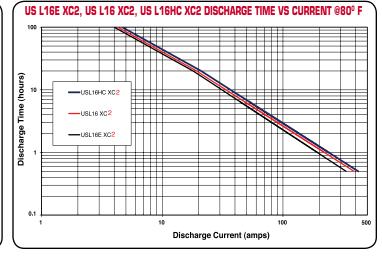
DATA SHEET Deep Cycle 6 -Volt

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					
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) 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^oF to12O^oF (-18 to 49^oC) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.

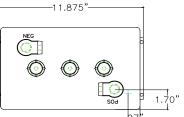
For discharging, we recommend -20°F to 120°F (-29 to 49°C). Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing.

Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

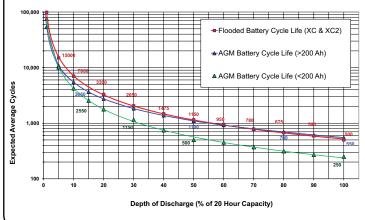
Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal run-away" which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

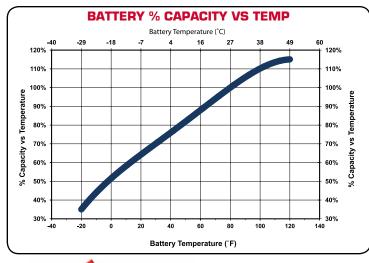
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For more information or questions, please visit WWW.USBATTERY.COM