

U	S 305	E)	(C	2,	US	3	05	X	CZ	, l	JS	305	5HC	XC	2 - 5	PEC	;IFI	CA'	ΓΙΟ	NS
BCI Group Size	Model	1-hr Rate	2-hr Rate	5-hr Rate			20-hr Rate					Standard Terminal Type	HOURS	MINUTES @ 75 AMPS	@	MINUTES @ 25 AMPS	Length	Width	Height	wet Weight Lbs (kg)
902	US 305E XC2	193	214	245	252	273	290	307	315	322	6	Offset "S"	290	182	256	660	11-7/8	7 1/0	11 5/0	86 (39)
902	US 305 XC2	203	226	261	268	294	310	328	337	345	6	Offset "S"	310	195	276	715				90 (41)
902	US 305HC XC2	220	245	283	291	322	340	360	370	378	6	Offset "S"	340	215	304	790	(302)	(181)	(371)	96 (43)
	RMINAL OF	DTIO	NS:																	







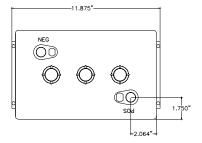
CHARGING INSTRUCTIONS:

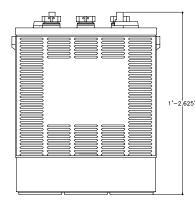
Following is the charging recommendation and charging profile using 2 stage chargers for US Battery deep cycle products. *Equalization and float charge modes are not considered to be one of the stages in a charging profile.

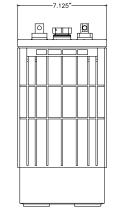
1. 2.	Bulk Charge Absorption Charge	Constant current @~10% of C/20 Ah in amps to 2.45+/-0.05 volts per cell (e.g. 7.35 volts +/-0.15 volts per 6 volt battery) Constant voltage (2.45+/-0.05 vpc) to 3% of C/20 Ah in amps then hold for 2-3 hours and terminate charge Charge termination can be by maximum 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:	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.						

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

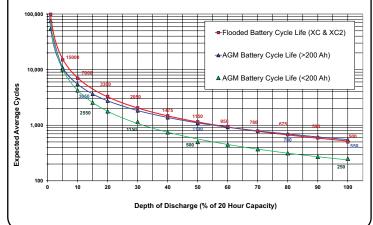
US 305E XC2, US 305 XC2, US 305HC XC2

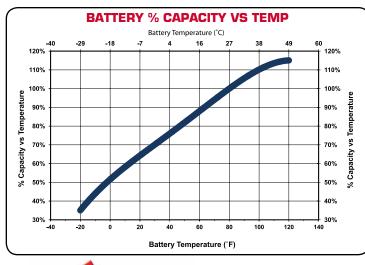






EXPECTED LIFE CYCLES VS. DOD (XC, XC2 & AGM)







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

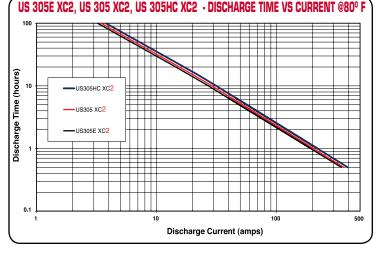
 ³Square-Head, SS or Zinc-Plated Bolt with SS or Zinc-Plated Hexnut & Split-Ring Lock Washer

 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 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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