

US 250 XC2, US 250HC XC2

DATA SHEET Deep Cycle 6 -Volt



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

Dimensions: 11-5/8 (295)L x 7-1/8 (181)W x 11-5/8 (295)H

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



Case material: Polypropylene / Heat Sealed

		l	US	2	50	X	C2	, U	IS	25	50ł	IC	XC	2 - 5	PEC	FIC	ATI	ON	S		
G	BCI Group Size	Model	1-hr Rate	2-hr Rate	5-hr Rate		10-hr Rate							HOURS	MINUTES @ 75 AMPS	@	@	Length	Width	Height	wet Weight Lbs (kg)
	901	US 250 XC2	173	191	217	223	239	255	270	277	284	6	Offset "S"	255	159	224	570	11-5/8	7-1/8	11-5/8	75 (34)
\subset	901	US 250HC XC2	192	211	239	245	263	280	296	304	311	6	Offset "S"	280	178	250	635	(295)	(181)	(295)	77 (35)



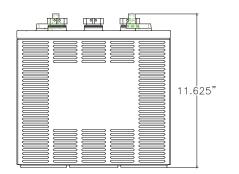


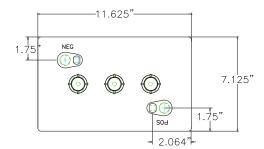
CHARGING INSTRUCTIONS:

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	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 extra charge helps keep Manually timed chargers show	to be equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. should have the charge time extended approximately 3 hours. hargers should be unplugged and reconnected after completing a charge.							

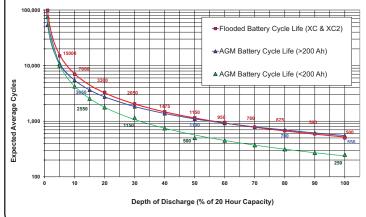
US 250 XC2, US 250HC XC2

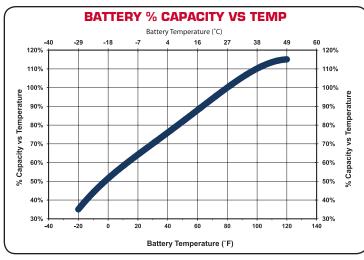




EXPECTED LIFE CYCLES VS. DOD (XC, XC2 & AGM)

7 125'







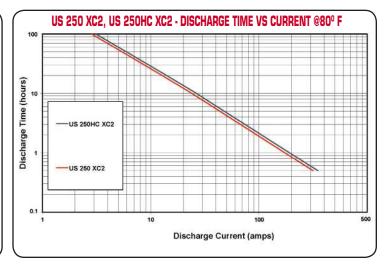
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U.S. Battery Terminal Type	Recommended Torque (in-lb)	Recommended Torque (ft-lb)	Recommended Connection Hardware				
UTL	95-105	7.9-8.8	¹ SS Hexnut with Lock Washer				
Molded-In UTL	95-105	7.9-8.8	¹ SS Hexnut with Lock Washer				
UT	95-105	7.9-8.8	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 Wash				
Flag	100-120	8.3-10	⁴ Zn or SS Bolt w/Hexnut & Lock Wash				
Large "L"	100-120	8.3-10.0	⁴ Zn or SS Bolt w/Hexnut & Lock Wash				
Small "L"	100-120	8.3-10.0	⁴ Zn or SS Bolt w/Hexnut & Lock Wash				
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 0°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 (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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