



Application:Wherever Deep Cycle
12-volt batteries are needed.Dimensions:12-3/4 (324)L
6-3/4 (171)W
9-3/4 (248)H

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

Case material:

Polypropylene / Heat Sealed

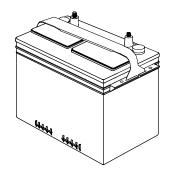


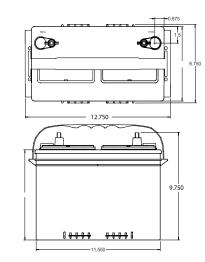
		U	S	2	7	D	C	Х	С	2	S	PE	CIF	FIC	AT	101	NS	5		
BCI												Standard	AMP	MINUTES	MINUTES	MINUTES				Wet
Group	Model	1-hr	2-hr	5-hr	6-hr	10-hr	20-hr	48-hr	72-hr	100-hr	Voltage		HOURS	@	@	@	Length	Width	Height	Weight
Size		Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		Туре	(20 HR. RATE)	75 AMPS	56 AMPS	25 AMPS	12-3/4	6-3/4	9-3/4	Lbs (kg
27	US 27DC XC2	69	78	89	91	97	105	111	114	117	12	SAE/bolt		54	77	205				59 (26.6

CHARGING INSTRUCTIONS:

		commendation and charging profile using 2 stage chargers for US Battery deep cycle products. ge modes are not considered to be one of the stages in a charging profile.						
1.	Bulk 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)						
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 adjustment: reduce the voltage by 0.028 Volts per cell for every 10°F above 80°F, increase by tamount for temperatures below 80°F.								
	This extra charge helps keep Manually timed chargers should	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. In the charge time extended approximately 3 hours. In the charge and reconnected after completing a charge.						

US 27DC XC2 - DATA SHEET Deep Cycle 12 -Volt

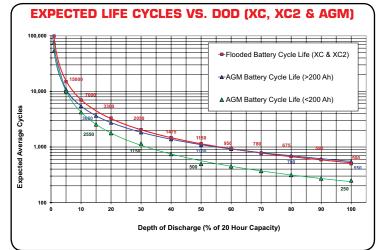


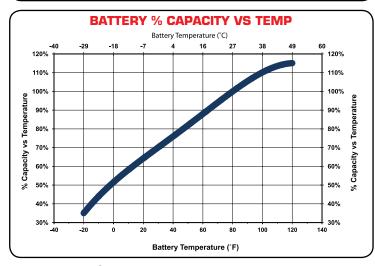


U.S. Battery Recommended Terminal Torque and Connection Hardware								
U.S. Battery Terminal Type	Recommended Torque (in-lb)	Recommended Torque (ft-lb)	Recommended Connection Hardware					
UTL	95-105	7.9-8.8	¹ SS Hexnut with Lock Washer					
UT	95-105	7.9-8.8	¹ SS Hexnut with Lock Washer					
Flat 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	5SS 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 ⁴Stainless 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

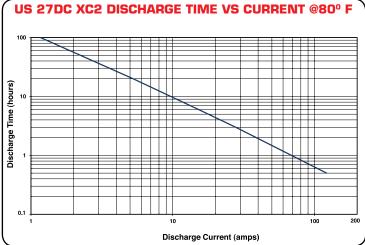
Note: The use of flanged nuts and other types of nuts with captive washers or other hardware not listed above is not recommended by US Battery and their use may void the battery warranty.







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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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