



US L16E XC2, US L16 XC2, US L16HC XC2

DATA SHEET Deep Cycle 6 -Volt

US L16HC XC2

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Washington

Company

Company

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

(Without Handles)

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

(With Handles)

12-7/16 (315)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



US L16E XC2, US L16 XC 2. US L16HC XC BCI MINUTES Standard AMP **MINUTES** MINUTES Length Model Group 1-hr 2-hr 5-hr 6-hr 10-hr 20-hr 48-hr 72-hr 100-hr Voltage Terminal **HOURS** with Width Height Weight Rate Rate Rate Rate Rate Size Rate Rate Rate Type (20 HR. RATE) 75 AMPS 56 AMPS 25 AMPS Handles Lbs (kg) 270 281 381 400 903 US L16E XC2 193 223 312 360 391 Large "L" 360 198 287 795 104 (47) 7-1/8 16-3/4 12-7/16 903 **US L16 XC2** 220 251 297 307 337 385 408 419 428 6 385 225 322 865 110 (50) Large "L' (181)(315)(425)239 272 250 903 US L16HC XC2 323 335 368 420 445 457 467 420 358 965 118 (54) Large "L'





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 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) Constant voltage 2.17 vpc (6.51 volts per 6 volt battery) for unlimited time

• Equalization Charge 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 the same

amount for temperatures below 80°F.

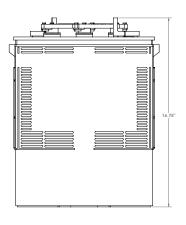
Deep cycle batteries need to be equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. This extra charge helps keep all cells in balance. Actively used batteries should be equalized once per month.

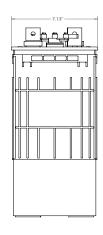
Manually timed chargers should have the charge time extended approximately 3 hours.

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

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-	12.40"	-
a	NEG S S S S S S S S S S S S S S S S S S S	2.00
		1.80"

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	1/6SS 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				

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)

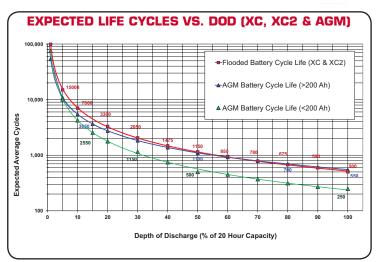
Square-Head, SS or Zinc-Plated Bolt with SS or Zinc-Plated Hexnut & Split-Ring Lock Washer

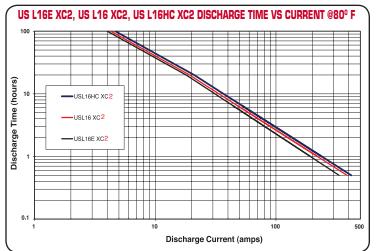
4 Square-Head or Hex-Head, SS or Zinc-Plated Bolt with SS or Zinc-Plated Hexnut & Split-Ring Lock Washer

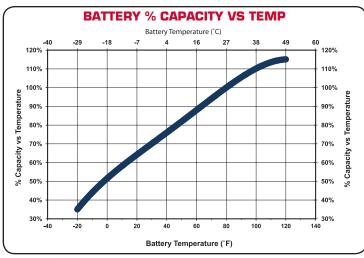
5 Stainless Steel Hexnut with SS Split-Ring Lock Washer (1/2" Positive or 3/8" Positive & 3/8" Negative)

6 No Hardware Supplied - Application Uses SAE Clamp for Positive & Negative Tapered Post

ote: 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 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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