

RCI												Standard	AMP	MINUTES	MINUTES	MINUTES	Length			wet
roup	Model	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
Size		Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		Туре	(20 HR. RATE)	75 AMPS	56 AMPS	25 AMPS	Handles			Lbs (kg)
903	US L16E XC2	193	223	270	281	312	360	381	391	400	6	Large "L"	360	198	287	795	10 7/16	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	(315)	(181)	(425)	118 (54)
	size 903 903	Model           Size         US L16E XC2           903         US L16 XC2	YoupModel1-hr Rate903US L16E XC2193903US L16 XC2220	Nodel         1-hr Rate         2-hr Rate           903         US L16E XC2         193         223           903         US L16 XC2         220         251	roup Size         Model         1-hr Rate         2-hr Rate         5-hr Rate           903         US L16E XC2         193         223         270           903         US L16 XC2         220         251         297	roup Size         Model         1-hr Rate         2-hr Rate         5-hr Rate         6-hr Rate           903         US L16E XC2         193         223         270         281           903         US L16 XC2         220         251         297         307	Nodel         1-hr Rate         2-hr Rate         5-hr Rate         6-hr Rate         10-hr Rate           903         US L16E XC2         193         223         270         281         312           903         US L16 XC2         220         251         297         307         337	Nodel         1-hr         2-hr         5-hr         6-hr         10-hr         20-hr           903         US L16E XC2         193         223         270         281         312         360           903         US L16 XC2         220         251         297         307         337         385	Nodel         1-hr Rate         2-hr Rate         5-hr Rate         6-hr Rate         10-hr Rate         20-hr Rate         48-hr Rate           903         US L16E XC2         193         223         270         281         312         360         381           903         US L16E XC2         220         251         297         307         337         385         408	Nodel         1-hr         2-hr         5-hr         6-hr         10-hr         20-hr         48-hr         72-hr           903         US L16E XC2         193         223         270         281         312         360         381         391           903         US L16 XC2         220         251         297         307         337         385         408         419	Nodel         1-hr Rate         2-hr Rate         5-hr Rate         6-hr Rate         10-hr Rate         20-hr Rate         48-hr Rate         72-hr Rate         100-hr Rate           903         US L16E XC2         193         223         270         281         312         360         381         391         400           903         US L16 XC2         220         251         297         307         337         385         408         419         428	Nodel         1-hr Rate         2-hr Rate         5-hr Rate         6-hr Rate         10-hr Rate         20-hr Rate         48-hr Rate         72-hr Rate         100-hr Rate         Voltage           903         US L16E XC2         193         223         270         281         312         360         381         391         400         6           903         US L16E XC2         220         251         297         307         337         385         408         419         428         6	Nodel1-hr Rate2-hr Rate5-hr Rate6-hr Rate10-hr Rate20-hr Rate48-hr Rate72-hr Rate100-hr RateVoltage Terminal Type903US L16E XC21932232702813123603813914006Large "L"903US L16E XC22202512973073373854084194286Large "L"	Model1-hr Rate2-hr Rate5-hr Rate6-hr Rate10-hr Rate20-hr Rate48-hr Rate72-hr Rate100-hr RateVoltage Terminal AgeTerminal HOURS (20 HR. RATE)903US L16E XC21932232702813123603813914006Large "L"360903US L16E XC22202512973073373854084194286Large "L"385	Model         1-hr         2-hr         5-hr         6-hr         10-hr         20-hr         A8-hr         72-hr         100-hr         Voltage         Terminal         HOURS         @           903         US L16E XC2         193         223         270         281         312         360         381         391         400         6         Large "L"         360         198           903         US L16E XC2         220         251         297         307         337         385         408         419         428         6         Large "L"         385         225	Model         1-hr         2-hr         5-hr         6-hr         10-hr         20-hr         A8-hr         72-hr         100-hr         Voltage         Terminal         HOURS         @	Model         1-hr         2-hr         5-hr         6-hr         10-hr         20-hr         8ate         72-hr         100-hr         Voltage         Terminal         HOURS         @         @         @         @         @         25 AMPS         25 AMPS         26 AMPS         25 AMPS         26 AMPS         26 AMPS         27 AMPS         26 AMPS         26 AMPS         27 AMPS         26 AMPS         26 AMPS         27 AMPS         26 AMPS         26 AMPS         26 AMPS         27 AMPS         26 AMPS         26 AMPS         27 AMPS         26 AMPS         26 AMPS         27 AMPS         26 AMPS         27 AMPS         26 AMPS         27 AMPS         26 AMPS         27 AMPS         28	roup       Model       1-hr       2-hr       5-hr       6-hr       10-hr       20-hr       8a-hr       72-hr       100-hr       Voltage       Terminal       HOURS       @ </td <td>Model       1-hr       2-hr       5-hr       6-hr       10-hr       20-hr       8ate       72-hr       100-hr       Voltage       Terminal       HOURS       @       @       @       @       with       With         903       US L16E XC2       193       223       270       281       312       360       381       391       400       6       Large "L"       360       198       287       795       12-7/16       7-1/8         903       US L16E XC2       220       251       297       307       337       385       408       419       428       6       Large "L"       360       198       287       795       12-7/16       7-1/8         (181)       US L16E XC2       220       251       297       307       337       385       408       419       428       6       Large "L"       360       198       287       795       12-7/16       7-1/8         (181)       US L16E XC2       220       251       297       307       337       385       408       419       428       6       Large "L"       385       225       322       865       12-7/16       (181)       141   <td>Model       1-hr       2-hr       5-hr       6-hr       10-hr       20-hr       Rate       72-hr       100-hr       Voltage       Terminal       HOURS       @</td></td>	Model       1-hr       2-hr       5-hr       6-hr       10-hr       20-hr       8ate       72-hr       100-hr       Voltage       Terminal       HOURS       @       @       @       @       with       With         903       US L16E XC2       193       223       270       281       312       360       381       391       400       6       Large "L"       360       198       287       795       12-7/16       7-1/8         903       US L16E XC2       220       251       297       307       337       385       408       419       428       6       Large "L"       360       198       287       795       12-7/16       7-1/8         (181)       US L16E XC2       220       251       297       307       337       385       408       419       428       6       Large "L"       360       198       287       795       12-7/16       7-1/8         (181)       US L16E XC2       220       251       297       307       337       385       408       419       428       6       Large "L"       385       225       322       865       12-7/16       (181)       141 <td>Model       1-hr       2-hr       5-hr       6-hr       10-hr       20-hr       Rate       72-hr       100-hr       Voltage       Terminal       HOURS       @</td>	Model       1-hr       2-hr       5-hr       6-hr       10-hr       20-hr       Rate       72-hr       100-hr       Voltage       Terminal       HOURS       @



### VENT CAP OPTIONS

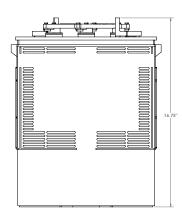


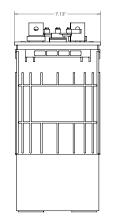
#### **CHARGING INSTRUCTIONS:**

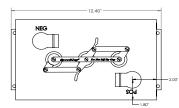
Following is the charging recommendation and charging profile using 2 stage chargers for US Battery deep cycle products. \*Equalization and float charge modes are not considered to be one of the stages in a charging profile.

1.	Bulk Charge	(e.g. 7.35 volts +/-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.

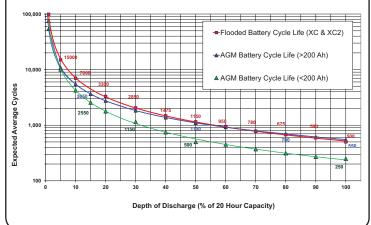
# US L16E XC2, US L16 XC2, US L16HC XC2

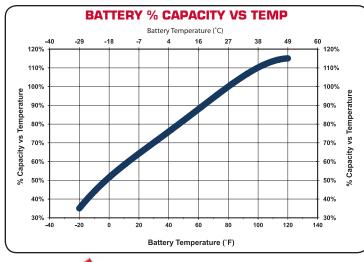






### EXPECTED LIFE CYCLES VS. DOD (XC, XC2 & AGM)







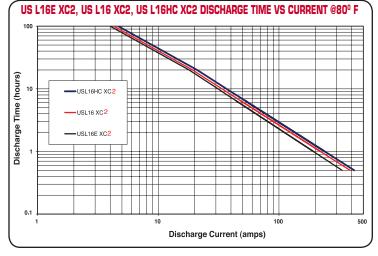
1675 Sampson Avenue Corona, CA 92879 (800) 695-0945 DATA SHEET Deep Cycle 6 -Volt

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	<sup>1</sup> SS Hexnut with Lock Washer					
Molded-In UTL	95-105	7.9-8.8	<sup>1</sup> SS Hexnut with Lock Washer					
UT	95-105	7.9-8.8	<sup>1</sup> SS Hexnut with Lock Washer					
Flat Block	95-105	7.9-8.8	<sup>1</sup> SS Hexnut with Lock Washer					
Dual	95-105	7.9-8.8	<sup>1/6</sup> SS Hexnut with Lock Washer					
DC Marine	95-105	7.9-8.8	<sup>2</sup> SS Hexnut with Lock Washer					
Off-Set "S"	100-120	8.3-10	<sup>3</sup> Zn or SS Bolt w/Hexnut & Lock Washer					
Flag	100-120	8.3-10	<sup>4</sup> Zn or SS Bolt w/Hexnut & Lock Washer					
Large "L"	100-120	8.3-10.0	<sup>4</sup> Zn or SS Bolt w/Hexnut & Lock Washer					
Small "L"	100-120	8.3-10.0	<sup>4</sup> Zn or SS Bolt w/Hexnut & Lock Washer					
Bus Lug	120-180	10.0-15.0	<sup>5</sup> SS Hexnut with Lock Washer					
SAE	50-70	4.2-5.8	<sup>6</sup> 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

<sup>1</sup>Stainless Steel Hexnut with Stainless Steel Split-Ring Lock Washer (5/16" Positive & Negative) <sup>2</sup>Stainless Steel Hexnut with Stainless Steel Split-Ring Lock Washer (3/8" Positive & 5/16" Negative) <sup>3</sup>Square-Head, SS or Zinc-Plated Bolt with SS or Zinc-Plated Hexnut & Split-Ring Lock Washer <sup>4</sup>Square-Head or Hex-Head, SS or Zinc-Plated Bolt with SS or Zinc-Plated Hexnut & Split-Ring Lock Washer <sup>5</sup>Stainless Steel Hexnut with SS Split-Ring Lock Washer (1/2" Positive or 3/8" Positive & 3/8" Negative) <sup>6</sup>No 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 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 fine. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

Data references within this publication are nominal and should not be considered or construed as maximum or minimum values for specifications or for final design. Data for this product type and model may varyfrom what is shown in this publication, and U.S. Battery/Mfg., Co. makes Nowarranties, expressed or implied based on the data within this publication.

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