

FLA Deep Cycle Battery **DATA/SPEC SHEETS**



Handcrafted in the USA
WWW.USBATTERY.COM



Augusta, GA



Evans, GA

At U.S. Battery, we pride ourselves on providing our distributors and global partners with dependable products and reliable support information that will allow each end user to feel confident they've made the right choice when using any of our world-class deep-cycle flooded lead acid and AGM batteries.

This booklet represents U.S. Battery's most comprehensive data compilation to date. With a history of excellence spanning from our humble beginnings in 1926 to the present, we feel confident that this data will further demonstrate the validity of the industry's trust in our battery line. We offer a variety of power solutions to a wide range of applications and industries all backed by a solid worldwide warranty.

All information in this book is up-to-date as of 3/19, for the most current information please visit www.usbattery.com.

DATA & SPECIFICATION SHEETS

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6 -Volt Deep Cycle Batteries

US 1800 XC2, US 2000 XC2, US 2200 XC2

DATA SHEET Deep Cycle 6 -Volt

6 - Volt



US 1800 XC2

US 2000 XC2

US 2200 XC2

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

Dimensions:
10-1/4 (260)L x 7-1/8 (181)W x 11-1/4 (286)H

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

Case material: Polypropylene / Heat Sealed



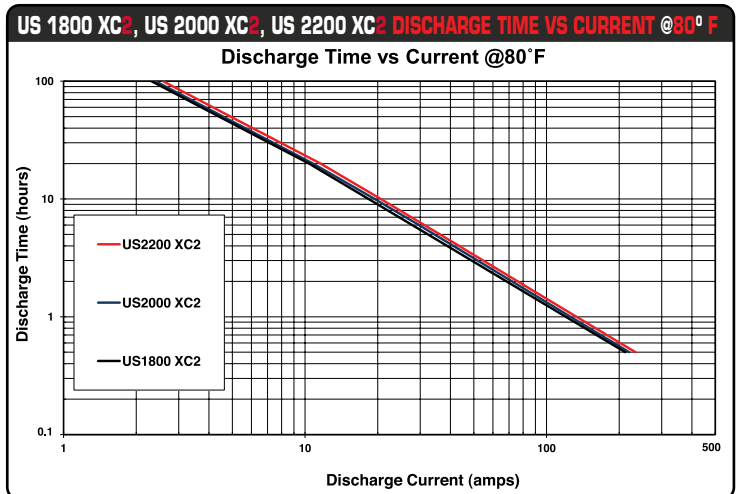
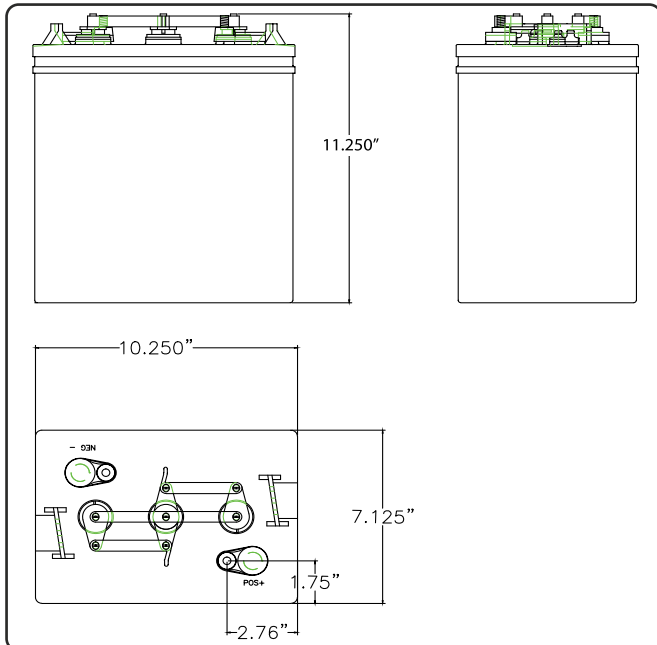
US 1800 XC2, US 2000 XC2, US 2200 XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length | Width | Height | Wet Weight Lbs (kg) |
|----------------|-------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|--------------|-------------|--------------|---------------------|
| GC2 | US 1800 XC2 | 122 | 136 | 157 | 161 | 179 | 208 | 220 | 226 | 231 | 6 | UTL | 208 | 107 | 151 | 392 | 10-1/4 (260) | 7-1/8 (181) | 11-1/4 (286) | 55 (25) |
| GC2 | US 2000 XC2 | 126 | 144 | 172 | 178 | 194 | 220 | 229 | 235 | 240 | 6 | UTL | 220 | 115 | 164 | 445 | | | | 57 (26) |
| GC2 | US 2200 XC2 | 133 | 152 | 181 | 187 | 206 | 232 | 246 | 252 | 258 | 6 | UTL | 232 | 122 | 175 | 474 | | | | 62 (28) |

TERMINAL OPTIONS:



VENT CAP OPTIONS:



US 125 XC2 -DATA SHEET

Deep Cycle 6 -Volt



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

Dimensions: 10-1/4 (260)L x 7-1/8 (181)W x 11-1/4 (286)H

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

Case material: Polypropylene / Heat Sealed



US 125 XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length (260) | Width (181) | Height (286) | Wet Weight Lbs (kg) |
|----------------|------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|--------------|-------------|--------------|---------------------|
| GC2 | US 125 XC2 | 153 | 171 | 198 | 203 | 220 | 242 | 256 | 263 | 269 | 6 | UTL | 242 | 140 | 198 | 517 | 10-1/4 (260) | 7-1/8 (181) | 11-1/4 (286) | 66 (30) |

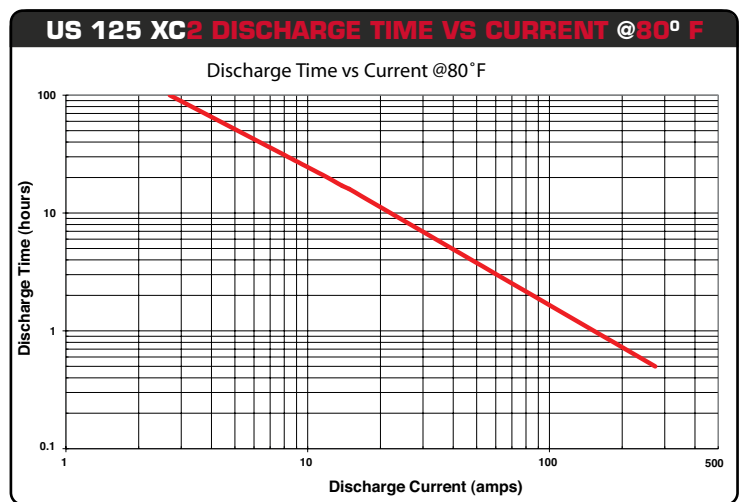
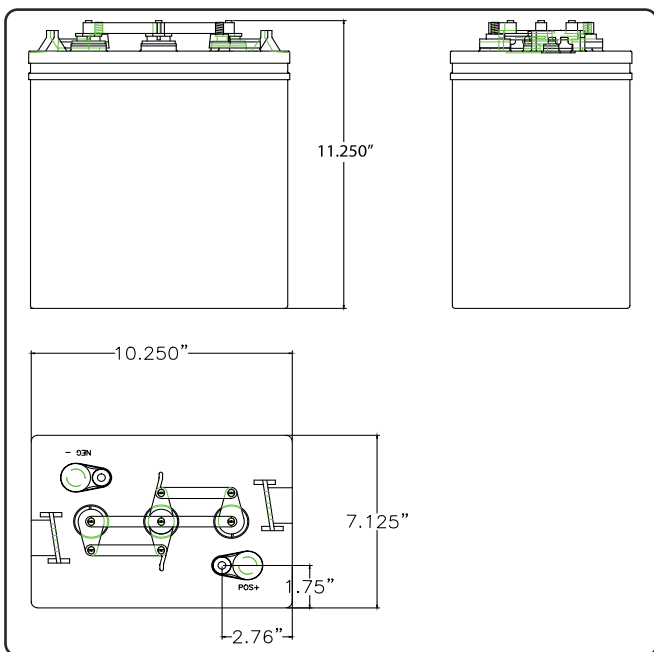
TERMINAL OPTIONS:

STANDARD

- UTL
- UT
- OFF-SET "S"
- DUAL
- SAE
- LARGE "L"
- SMALL "L"

VENT CAP OPTIONS:

- SpeedCap®
- Bayonet



US 145 XC2 - DATA SHEET

Deep Cycle 6 -Volt

6 - Volt



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

Dimensions:
10-1/4 (260)L x 7-1/8 (181)W x 11-7/8 (302)H

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

Case material: Polypropylene / Heat Sealed



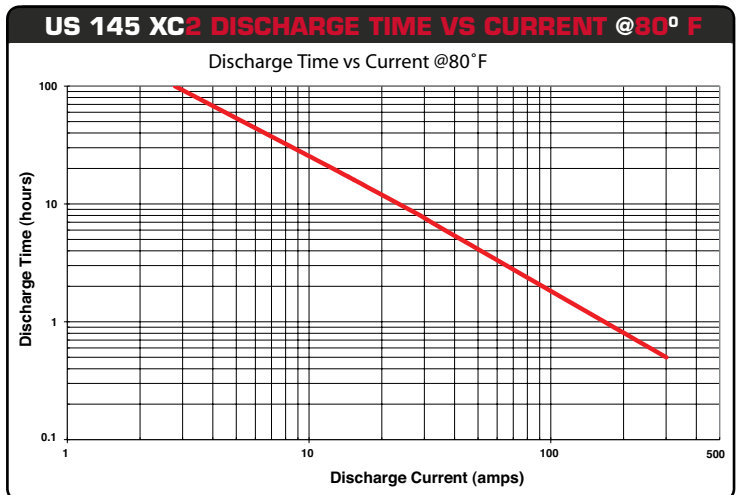
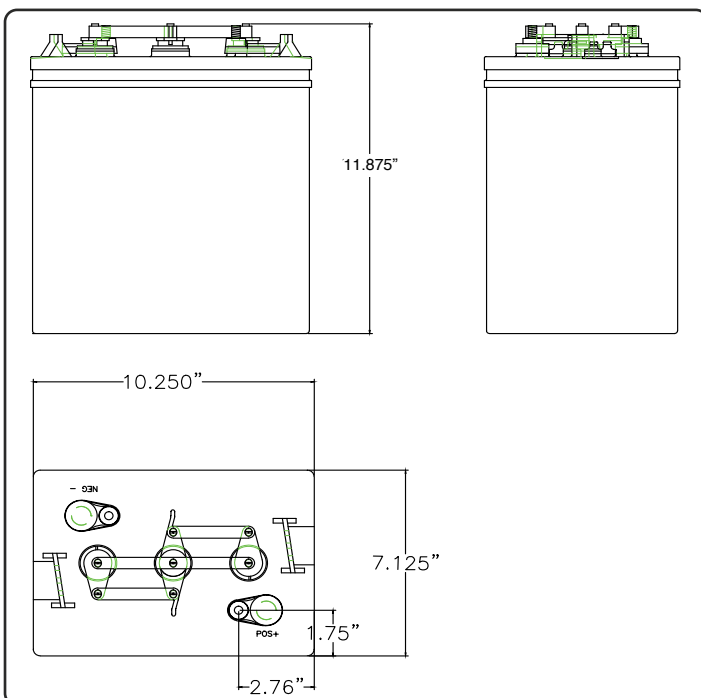
US 145 XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length | Width | Height | Wet Weight Lbs (kg) |
|----------------|------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|--------------|-------------|--------------|---------------------|
| GC2 | US 145 XC2 | 167 | 185 | 213 | 225 | 236 | 251 | 266 | 273 | 279 | 6 | UTL | 251 | 154 | 217 | 562 | 10-1/4 (260) | 7-1/8 (181) | 11-7/8 (302) | 70 (32) |

TERMINAL OPTIONS:



VENT CAP OPTIONS:



US 250 XC2, US 250HC XC2

DATA SHEET Deep Cycle 6-Volt



US 250 XC2

US 250HC XC2

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



US 250 XC2, US 250HC XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 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 (295) | 7-1/8 (181) | 11-5/8 (295) | 75 (34) |
| 901 | US 250HC XC2 | 192 | 211 | 239 | 245 | 263 | 280 | 296 | 304 | 311 | 6 | Offset "S" | 280 | 178 | 250 | 635 | | | | 77 (35) |

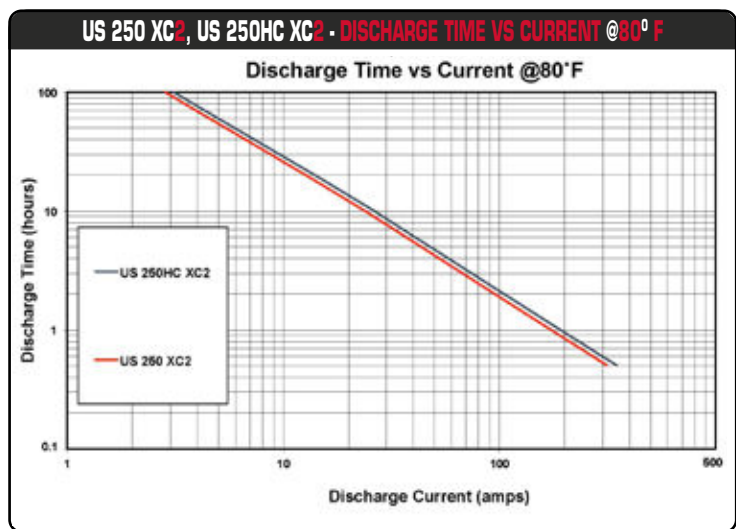
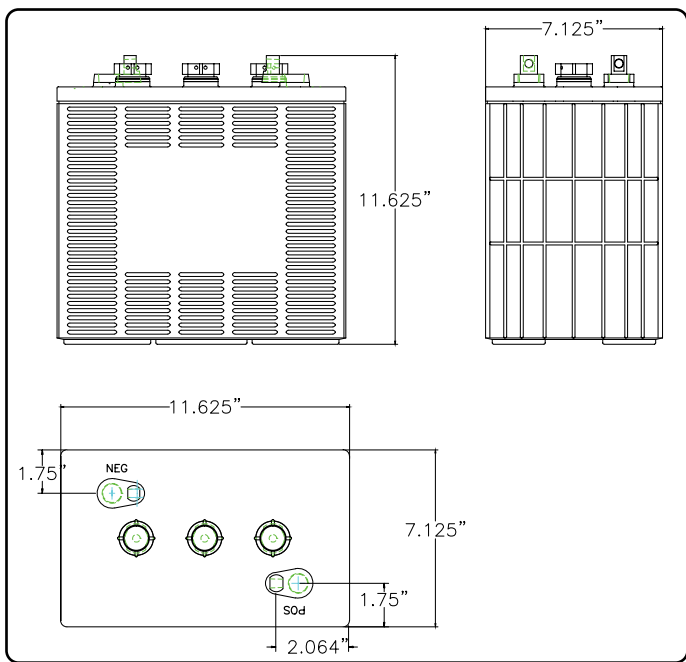
TERMINAL OPTIONS:

STANDARD

- OFF-SET "S"
- UT
- UTL
- DUAL
- SAE
- LARGE "L"
- SMALL "L"

VENT CAP OPTIONS:

- SpeedCap®
- Bayonet



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

DATA SHEET Deep Cycle 6 -Volt

6 -Volt



US 305E XC2

US 305 XC2

US 305HC XC2

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

Dimensions: 11-7/8 (302)L x 7-1/8 (181)W x 14-5/8 (371)H

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

Case material: Polypropylene /Heat Sealed



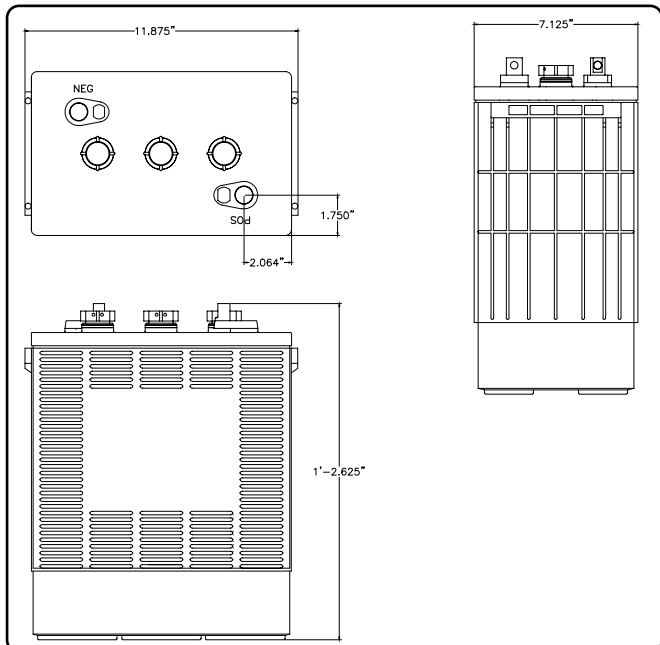
US 305E XC2, US 305 XC2, US 305HC XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 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 (302) | 7-1/8 (181) | 14-5/8 (371) | 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 | | | | 96 (43) |

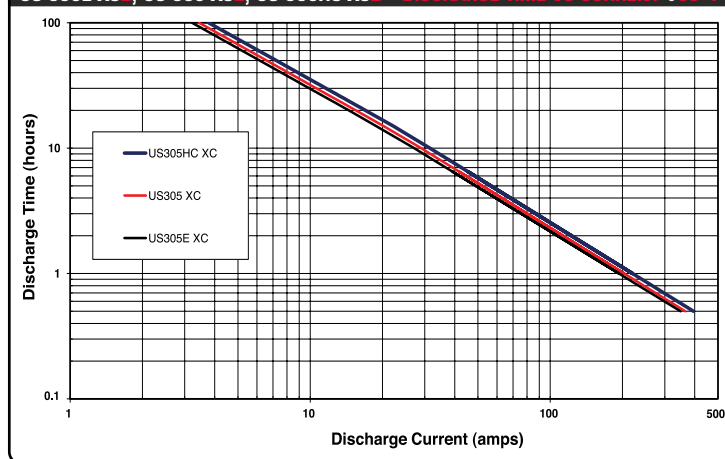
TERMINAL OPTIONS:



VENT CAP OPTIONS:



US 305E XC2, US 305 XC2, US 305HC XC2 - DISCHARGE TIME VS CURRENT @ 30° F



US L16E XC², US L16 XC², US L16HC XC²

DATA SHEET Deep Cycle 6-Volt

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

Dimensions: (Without Handles)

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



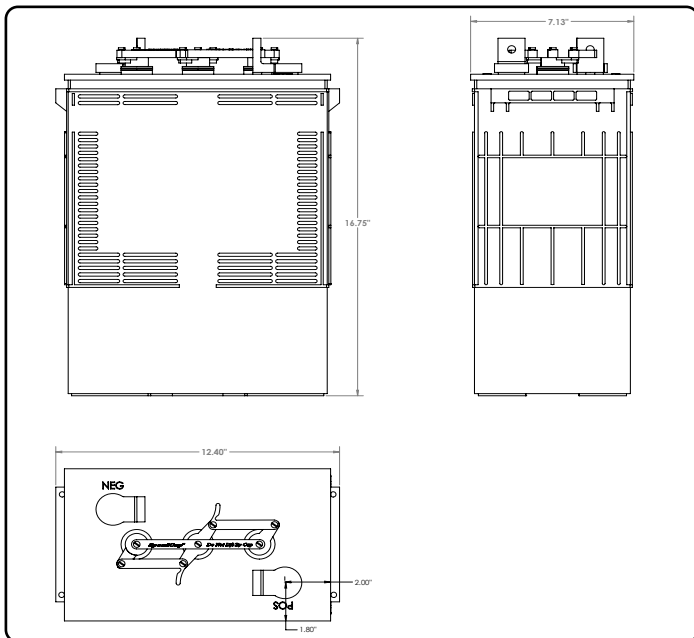
US L16E XC², US L16 XC², US L16HC XC² - SPECIFICATIONS

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

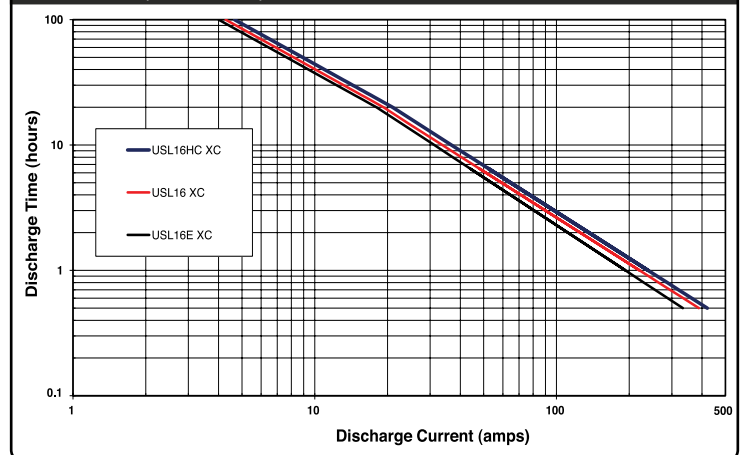
TERMINAL OPTIONS:



VENT CAP OPTIONS:



US L16E XC², US L16 XC², US L16HC XC² DISCHARGE TIME VS CURRENT @ 30° F



US 100DIN XC2 - DATA SHEET

Deep Cycle 6 -Volt

6 -Volt



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

Dimensions:
9-5/8 (244)L x 7-1/2 (191)W x 10-7/8 (276)H

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

Case material: Polypropylene / Heat Sealed



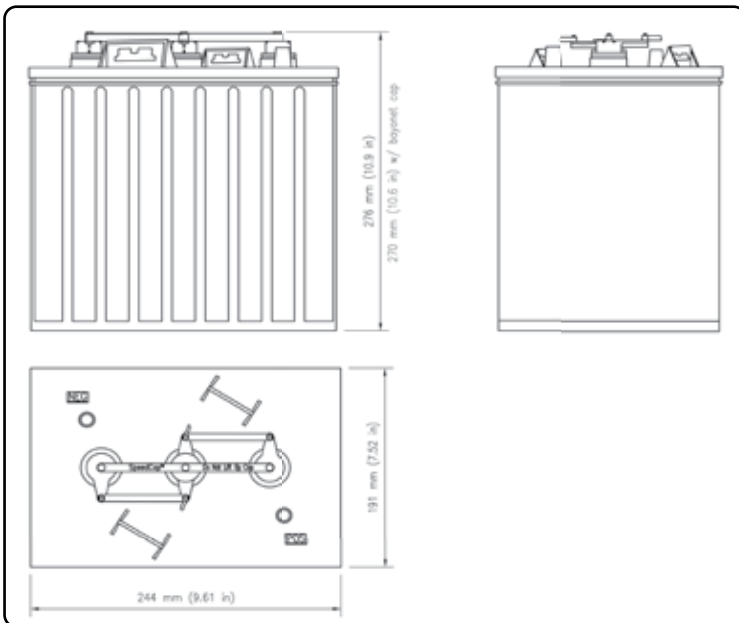
US 100DIN XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length | Width | Height | Wet Weight Lbs (kg) |
|----------------|---------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|-------------|-------------|--------------|---------------------|
| DIN GC2 | US 100DIN XC2 | 160 | 177 | 199 | 205 | 222 | 247 | 254 | 257 | 260 | 6 | SAE | 247 | 135 | 204 | 520 | 9-5/8 (244) | 7-1/2 (191) | 10-7/8 (276) | 61 (28) |

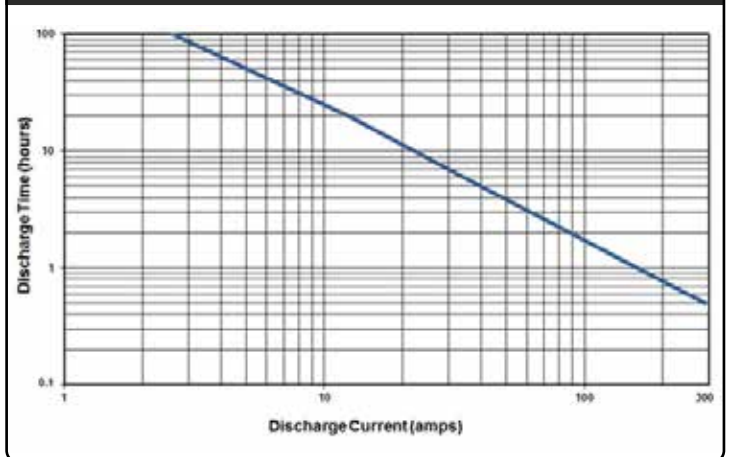
TERMINAL OPTIONS:



VENT CAP OPTIONS:



US 100DIN XC2 DISCHARGE TIME VS CURRENT @80° F



8 - Volt Deep Cycle Batteries

US 8VGCE XC2, US 8VGC XC2, US 8VGCHC XC2

DATA SHEET Deep Cycle 8 -Volt



US 8VGCE XC2



US 8VGCi XC2
(US 8VGCi XC2 cover option,
compatible with select OEM
watering kits, also available)



US 8VGCHC XC2

Application: Wherever Deep Cycle 8-volt batteries are needed.

Dimensions:
10-1/4 (260)L x 7-1/8 (181)W x 11-1/4 (286)H

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

Case material: Polypropylene / Heat Sealed



8 - Volt

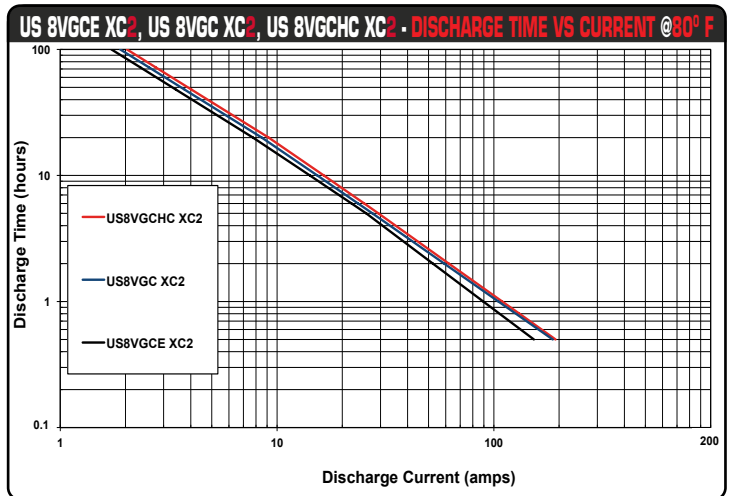
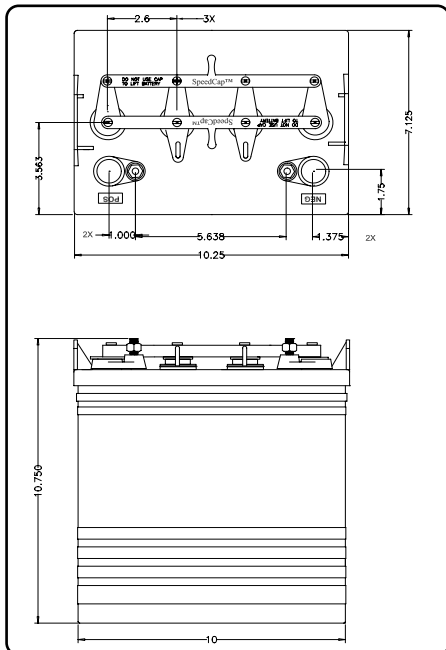
US 8VGCE XC2, US 8VGC XC2, US 8VGCHC XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length | Width | Height | Wet Weight Lbs (kg) |
|----------------|---------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|--------------|-------------|--------------|---------------------|
| GC8 | US 8VGCE XC2 | 90 | 105 | 129 | 132 | 142 | 155 | 164 | 169 | 172 | 8 | UTL | 155 | 75 | 110 | 312 | 10-1/4 (260) | 7-1/8 (181) | 11-1/4 (286) | 60 (27) |
| GC8 | US 8VGC XC2 | 96 | 111 | 133 | 138 | 151 | 170 | 180 | 185 | 189 | 8 | UTL | 170 | 82 | 118 | 325 | | | | 62 (28) |
| GC8 | US 8VGCHC XC2 | 109 | 124 | 147 | 152 | 164 | 183 | 194 | 199 | 203 | 8 | UTL | 183 | 95 | 136 | 365 | | | | 67 (30) |

TERMINAL OPTIONS:



VENT CAP OPTIONS:



US 8VHATB XC2 - DATA SHEET

Deep Cycle 8 -Volt

8 -Volt



Application: Wherever Deep Cycle 8-volt batteries are needed.

Dimensions: 10-1/4 (260)L x 7-1/8 (181)W x 11-7/8 (302)H

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

Case material: Polypropylene / Heat Sealed



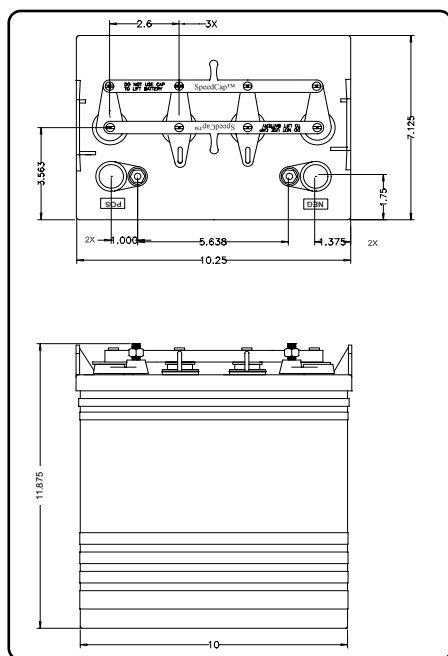
US 8VHATB XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length (260) | Width (181) | Height (302) | Wet Weight Lbs (kg) |
|----------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|--------------|-------------|--------------|---------------------|
| GC8H | US 8VHATB | 128 | 145 | 170 | 177 | 188 | 205 | 216 | 221 | 225 | 8 | UTL | 205 | 115 | 164 | 435 | 10-1/4 (260) | 7-1/8 (181) | 11-7/8 (302) | 73 (33) |

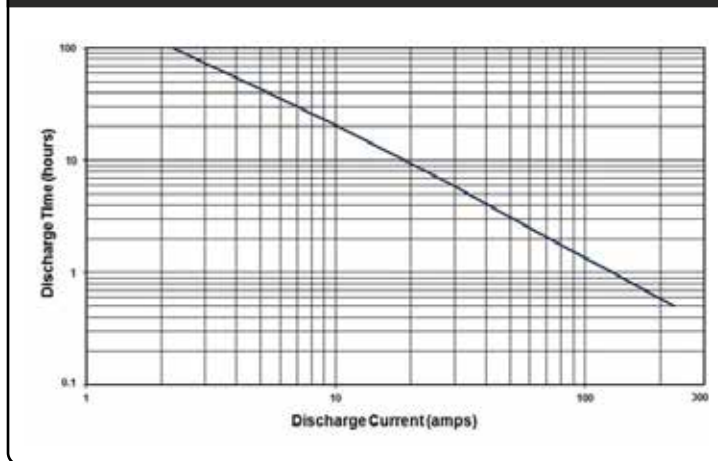
TERMINAL OPTIONS:



VENT CAP OPTIONS:



US 8VHATB XC2 - DISCHARGE TIME VS CURRENT @80° F



12 -Volt Deep Cycle Batteries

US 24DC XC2 - DATA SHEET

Deep Cycle 12 -Volt

12 -Volt



Application: Wherever Deep Cycle 12-volt batteries are needed.

Dimensions:

10-7/8 (276)L x 6-3/4 (171)W x 9-3/8 (238)H

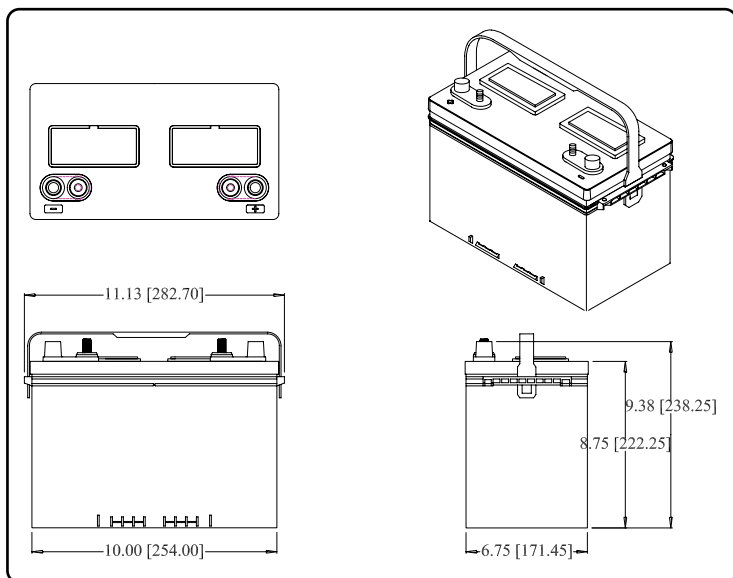
Type: Flooded Lead Acid (FLA) non-sealed.

Case material: Polypropylene / Heat Sealed

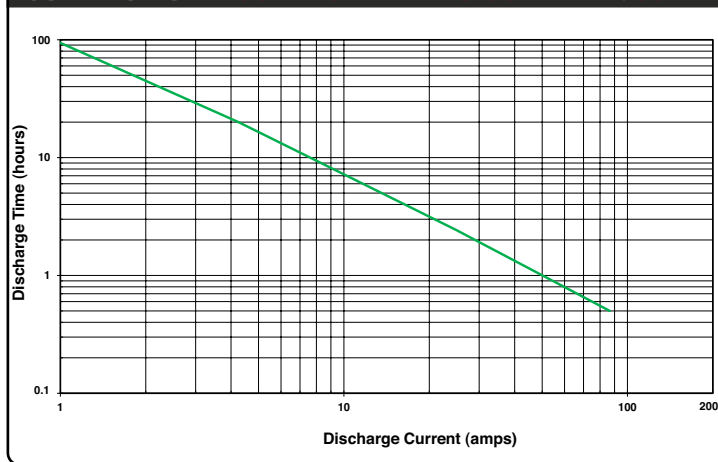


US 24DC XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length | Width | Height | Wet Weight Lbs (kg) |
|----------------|-------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|--------------|-------------|-------------|---------------------|
| 24 | US 24DC XC2 | 52 | 58 | 68 | 70 | 76 | 85 | 90 | 92 | 95 | 12 | SAE/bolt | 85 | 38 | 54 | 145 | 10-7/8 (276) | 6-3/4 (171) | 9-3/8 (238) | 51 (23) |



US 24DC XC2 DISCHARGE TIME VS CURRENT @80° F



US 27DC XC2 - DATA SHEET

Deep Cycle 12 -Volt



Application: Wherever Deep Cycle 12-volt batteries are needed.

Dimensions:
12-3/4 (324)L x 6-3/4 (171)W x 9-3/4 (248)H

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

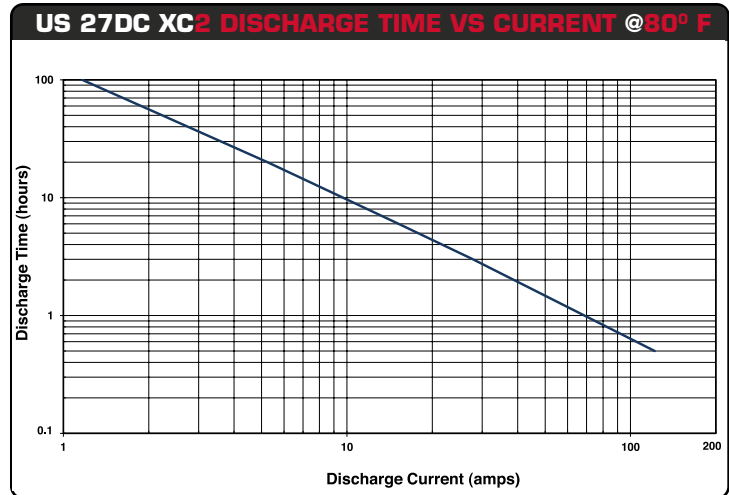
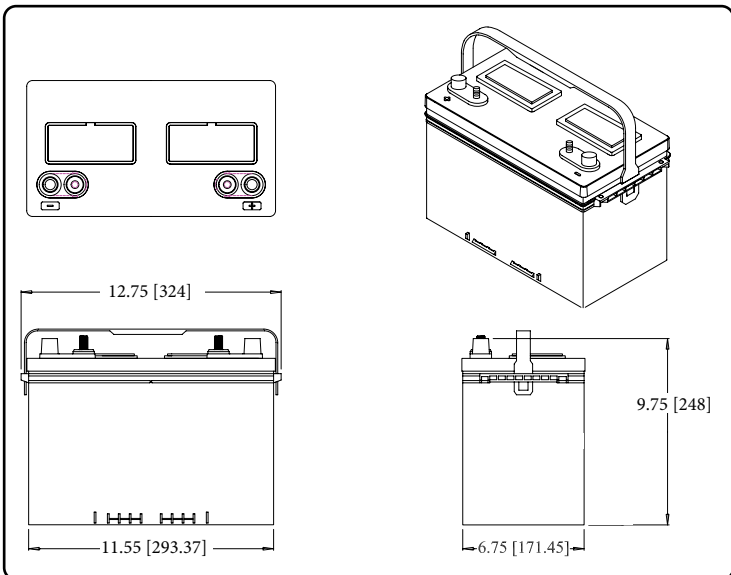
Case material: Polypropylene / Heat Sealed

12 -Volt



US 27DC XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length (324) | Width (171) | Height (248) | Wet Weight Lbs (kg) |
|----------------|-------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|--------------|-------------|--------------|---------------------|
| 27 | US 27DC XC2 | 69 | 78 | 89 | 91 | 97 | 105 | 111 | 114 | 117 | 12 | SAE/bolt | 105 | 54 | 77 | 205 | (324) | (171) | (248) | 59 (26.6) |



US 31DC XC2 - DATA SHEET

Deep Cycle 12 -Volt

12 -Volt



Application: Wherever Deep Cycle 12-volt batteries are needed.

Dimensions:

13 (330)L x 6-3/4 (171)W x 9-5/8 (243)H

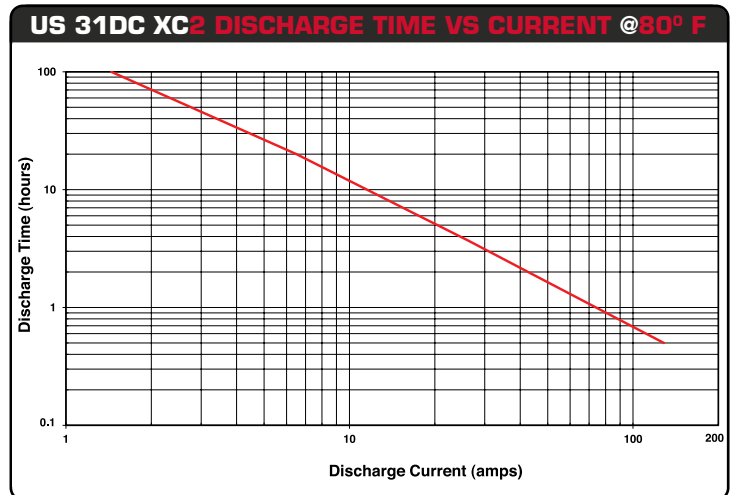
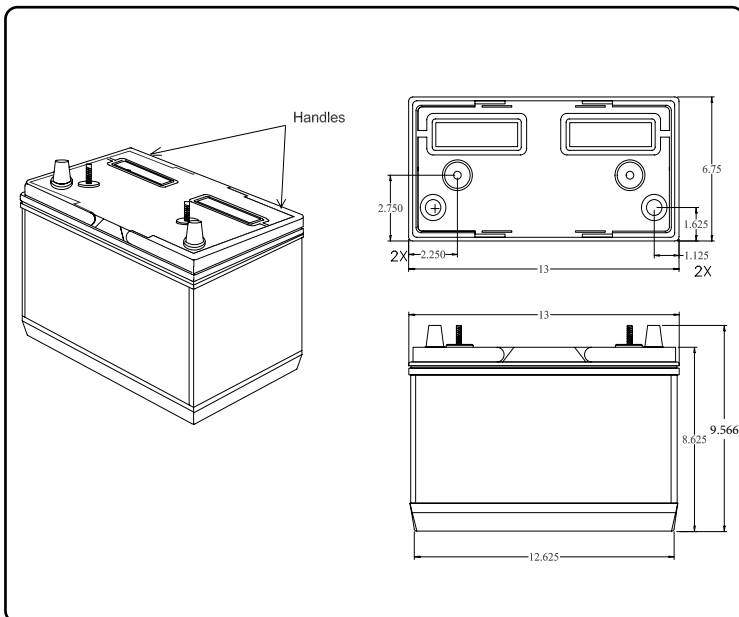
Type: Flooded Lead Acid (FLA) non-sealed.

Case material: Polypropylene / Heat Sealed



US 31DC XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length | Width | Height | Wet Weight Lbs (kg) |
|----------------|-------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|----------|-------------|-------------|---------------------|
| 31 | US 31DC XC2 | 74 | 84 | 99 | 103 | 114 | 130 | 138 | 141 | 144 | 12 | SAE/bolt | 130 | 59 | 84 | 225 | 13 (330) | 6-3/4 (171) | 9-5/8 (243) | 66 (29.7) |



US 12VE XC2 - DATA SHEET

Deep Cycle 12 -Volt



Application: Wherever Deep Cycle 12-volt batteries are needed.

Dimensions: (Without Handles)

13-1/8 (333)L x 7-1/16 (179)W x 11-3/8 (289)H

(With Handles)

14 (355)L x 7-1/16 (179)W x 11-3/8 (289)H

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

Case material: Polypropylene / Heat Sealed



12 -Volt

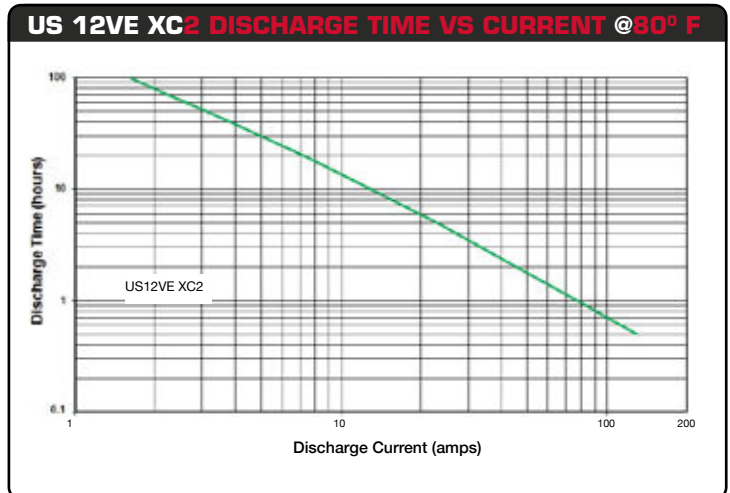
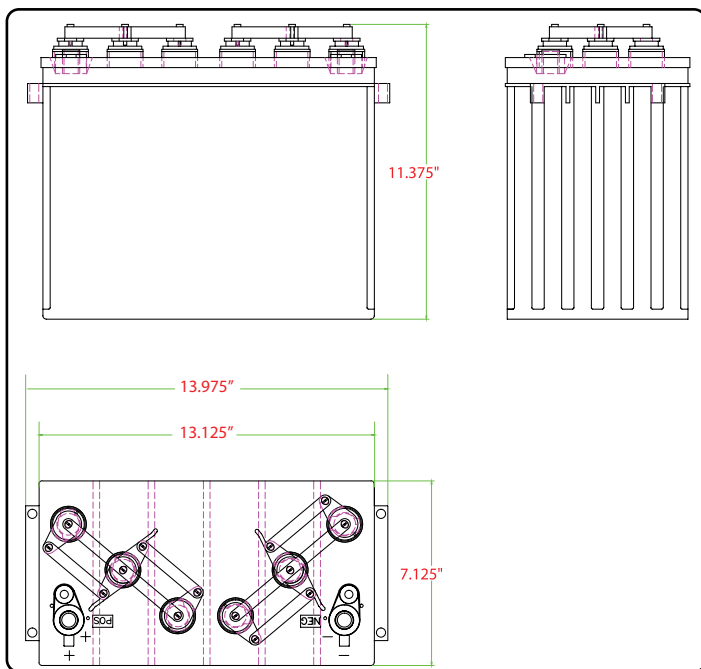
US 12VE XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length with Handles | Width | Height | Wet Weight Lbs (kg) |
|----------------|-------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|---------------------|--------------|--------------|---------------------|
| GC12 | US 12VE XC2 | 77 | 92 | 115 | 118 | 129 | 145 | 155 | 158 | 161 | 12 | UTL | 145 | 62 | 95 | 270 | 14 (355) | 7-1/16 (179) | 11-3/8 (289) | 81(36.7) |

TERMINAL OPTIONS:



VENT CAP OPTIONS:



US 12VRX XC2 - DATA SHEET

Deep Cycle 12 -Volt

Application: Wherever Deep Cycle 12-volt batteries are needed.

Dimensions: (Without Handles)

13-1/8 (333)L x 7-1/16 (179)W x 11-3/8 (289)H

(With Handles)

14 (355)L x 7-1/16 (179)W x 11-3/8 (289)H

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

Case material: Polypropylene / Heat Sealed



12 -Volt



US 12VRX XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length with Handles | Width | Height | Wet Weight Lbs (kg) |
|----------------|--------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|---------------------|--------------|--------------|---------------------|
| GC12 | US 12VRX XC2 | 92 | 104 | 122 | 126 | 138 | 155 | 164 | 169 | 172 | 12 | Molded-In UTL | 155 | 77 | 110 | 292 | 14 (355) | 7-1/16 (179) | 11-3/8 (289) | 86 (39) |

TERMINAL OPTIONS:

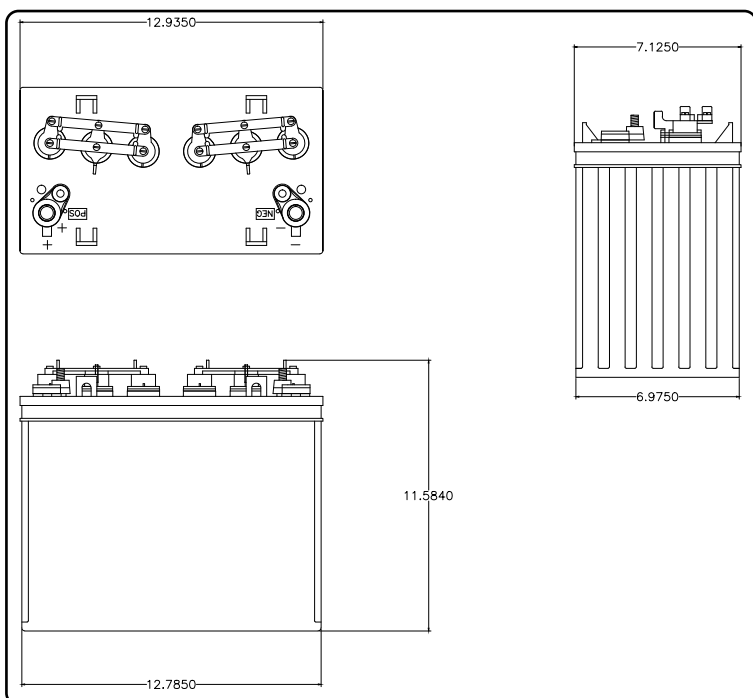
STANDARD

- MOLDED-IN UTL*** (Standard on US 12V & US 12VXZ)
- UTL** (Standard on US 12V & US 12VXZ)
- UT**
- OFF-SET "S"**
- DUAL**
- SAE**
- LARGE "L"**
- SMALL "L"**
- FLAT BLOCK**

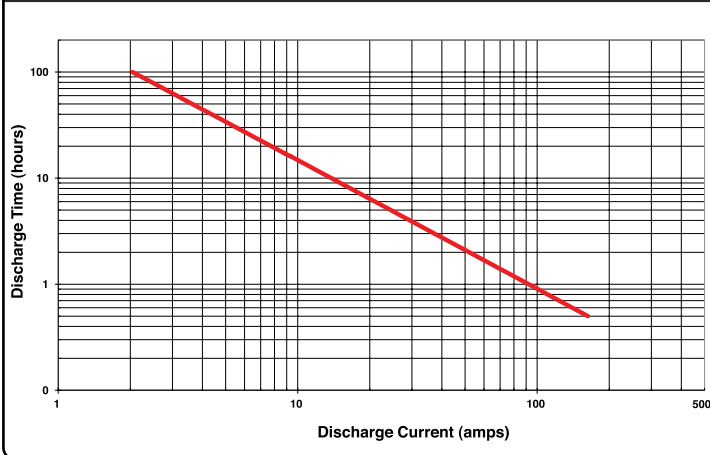
*Standard on US 12VRX Available only on US 12VRX

VENT CAP OPTIONS:

- SpeedCap®**
- Bayonet**



US 12VRX XC2 DISCHARGE TIME VS CURRENT @ 80° F



US 185E XC2, US 185 XC2, US 185HC XC2

DATA SHEET Deep Cycle 12 -Volt

Application: Wherever Deep Cycle 12-volt batteries are needed.

Dimensions: 15-5/8 (397)L x 7-1/16 (179)W x 14-7/8 (378)H

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

Case material: Polypropylene / Heat Sealed



US 185E XC2

US 185 XC2

US 185HC XC2



12 - Volt

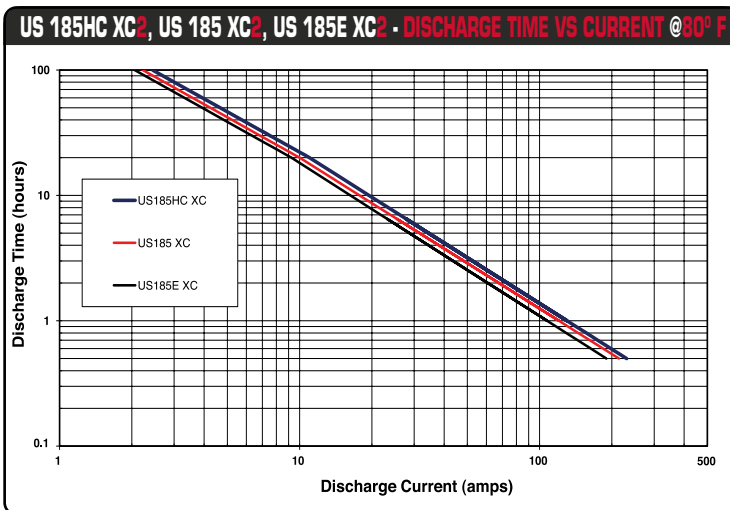
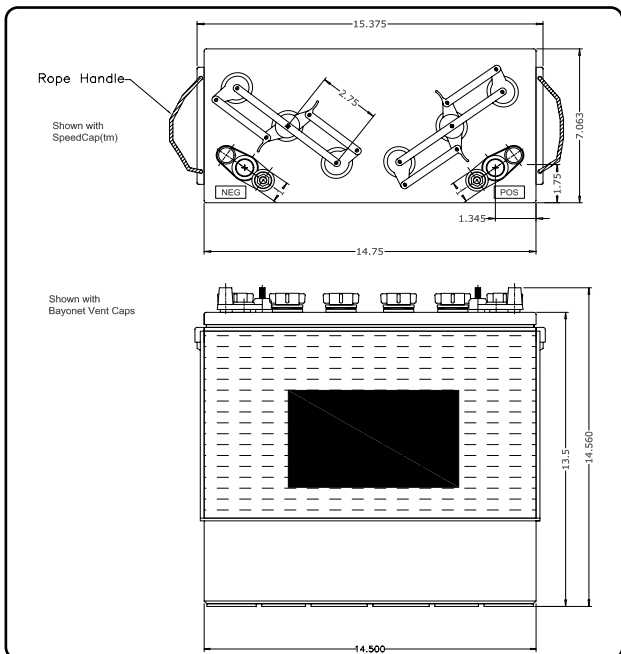
US 185E XC2, US 185 XC2, US 185HC XC2 - SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length | Width | Height | Wet Weight Lbs (kg) |
|----------------|--------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|--------------|--------------|--------------|---------------------|
| 921 | US 185E XC2 | 107 | 122 | 144 | 148 | 163 | 185 | 196 | 201 | 206 | 12 | Offset "S" | 185 | 93 | 133 | 355 | 15-5/8 (397) | 7-1/16 (179) | 14-7/8 (378) | 105 (47.8) |
| 921 | US 185 XC2 | 120 | 135 | 158 | 163 | 178 | 200 | 212 | 217 | 222 | 12 | Offset "S" | 200 | 106 | 151 | 398 | | | | 109 (49.4) |
| 921 | US 185HC XC2 | 130 | 147 | 172 | 178 | 195 | 220 | 233 | 239 | 244 | 12 | Offset "S" | 220 | 117 | 167 | 443 | | | | 120 (54.4) |

TERMINAL OPTIONS:



VENT CAP OPTIONS:



RE 6 & 2 -Volt Deep Cycle Batteries

US REGC2H XC2 - DATA SHEET

Deep Cycle 6 -Volt



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

Dimensions:
10-1/4 (260)L x 7-1/8 (181)W x 11-7/8 (302)H

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

Case material: Polypropylene / Heat Sealed



US REGC2H XC2 SPECIFICATIONS

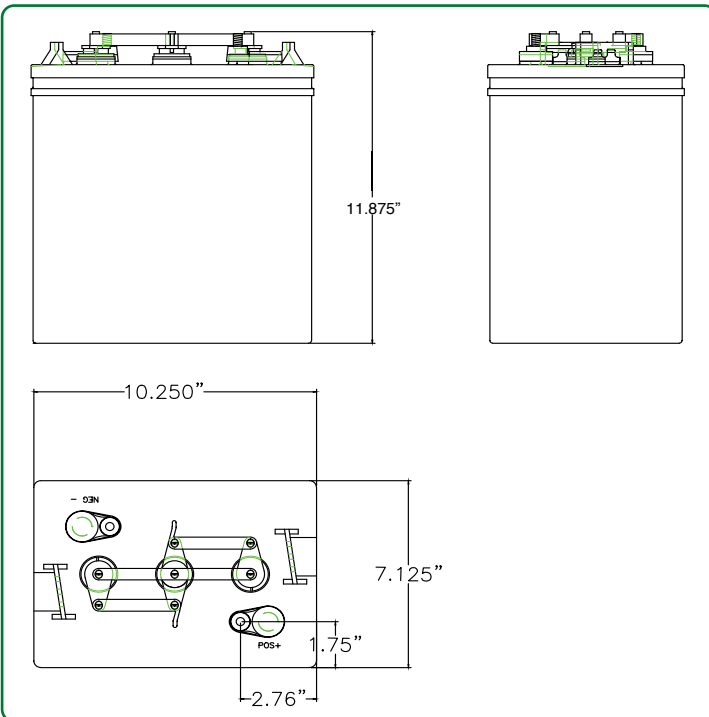
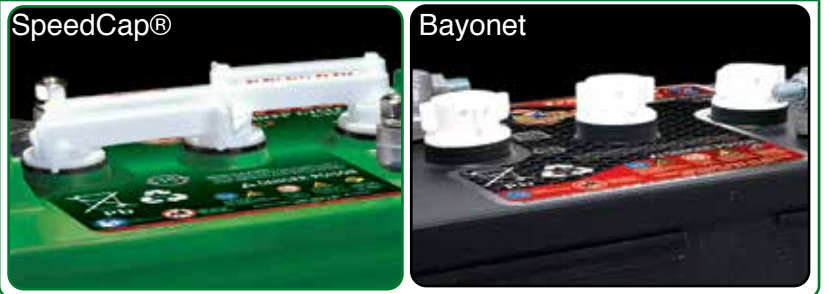
| BCI Group Size | Model | 1-hr Rate | 2-hr Rate | 5-hr Rate | 6-hr Rate | 10-hr Rate | 20-hr Rate | 48-hr Rate | 72-hr Rate | 100-hr Rate | Voltage | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length | Width | Height | Wet Weight Lbs (kg) |
|----------------|---------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|--------------|-------------|--------------|---------------------|
| GC2 | US REGC2H XC2 | 149 | 167 | 194 | 200 | 217 | 242 | 256 | 263 | 269 | 6 | UTL | 242 | 136 | 193 | 507 | 10-1/4 (260) | 7-1/8 (181) | 11-7/8 (302) | 68 (30.8) |

RE 6 -Volt

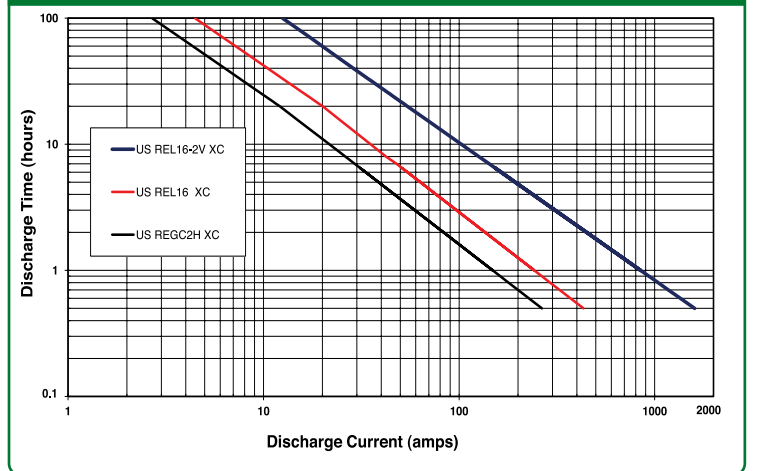
TERMINAL OPTIONS:



VENT CAP OPTIONS:



US REGC2HXC2 DISCHARGE TIME VS CURRENT @80° F



US REL16 XC2 - DATA SHEET

Deep Cycle 6 -Volt

Application: Renewable & wherever Deep Cycle 6-volt batteries are needed.

Dimensions: (Without Handles)

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 REL16 XC2 SPECIFICATIONS

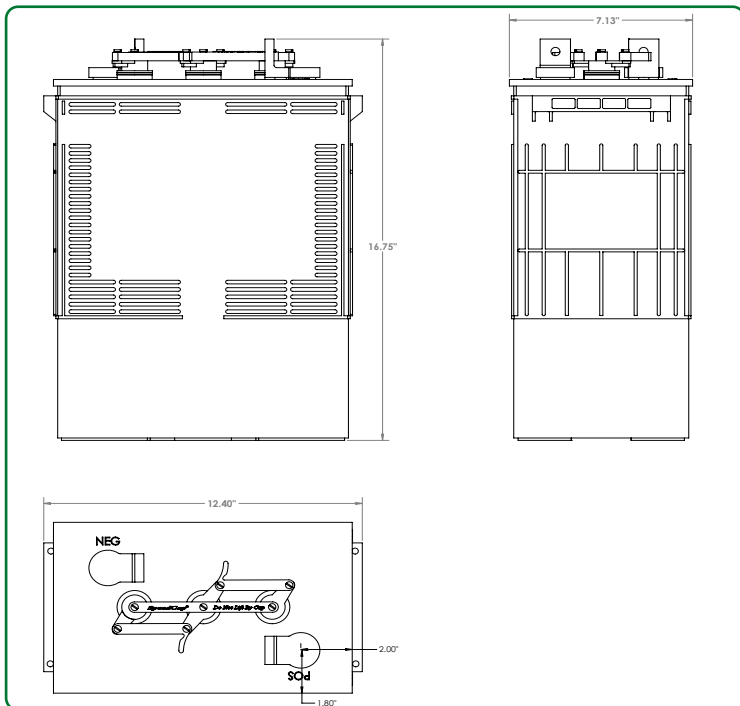
| BCI Group Size | Model | 1-hr Rate | 2-hr Rate | 5-hr Rate | 6-hr Rate | 10-hr Rate | 20-hr Rate | 48-hr Rate | 72-hr Rate | 100-hr Rate | Voltage | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length with Handles 12-7/16 (315) | Width 7-1/8 (181) | Height 16-3/4 (425) | Wet Weight Lbs (kg) |
|----------------|--------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|-----------------------------------|-------------------|---------------------|---------------------|
| 903 | US REL16 XC2 | 242 | 272 | 317 | 326 | 352 | 401 | 425 | 436 | 446 | 6 | Large "L" | 401 | 245 | 348 | 915 | | | | 112 (50.8) |

RE 6 -Volt

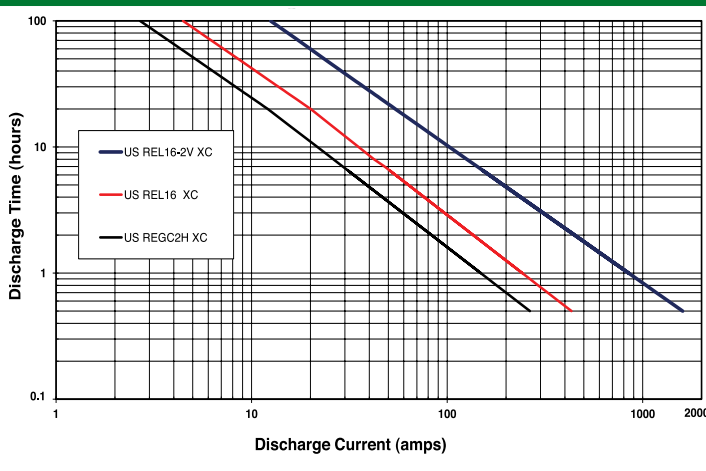
TERMINAL OPTIONS:



VENT CAP OPTIONS:



US RE L16 XC2 DISCHARGE TIME VS CURRENT @80° F





US REL16 2V XC2 - DATA SHEET

Deep Cycle 2-Volt

Application: Renewable & wherever Deep Cycle 2-volt batteries are needed.

Dimensions: (Without Handles)

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



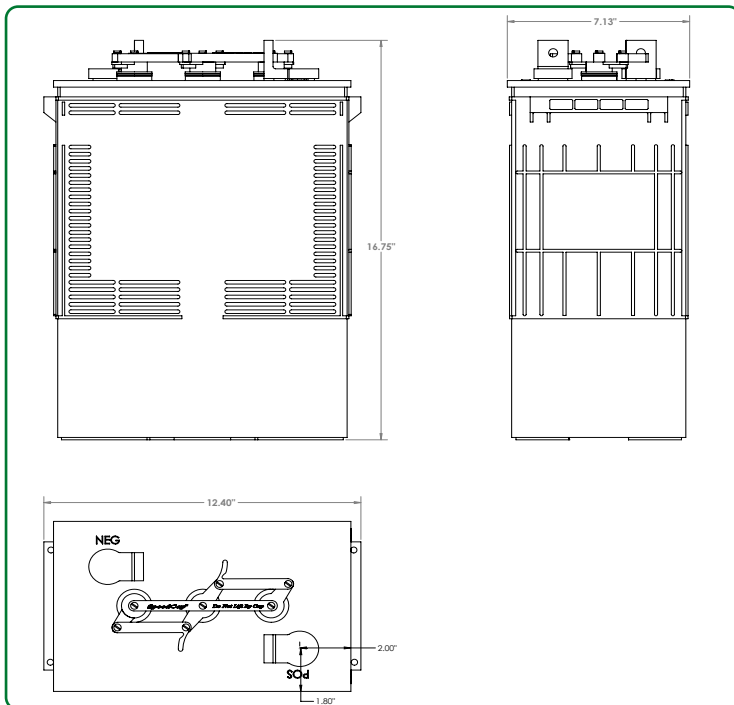
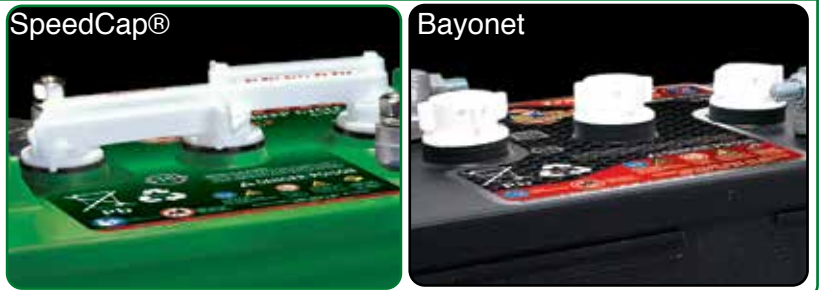
US REL16 2V XC2 SPECIFICATIONS

| BCI Group Size | Model | 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 | Standard Terminal Type | AMP HOURS (20 HR. RATE) | MINUTES @ 75 AMPS | MINUTES @ 56 AMPS | MINUTES @ 25 AMPS | Length with Handles | Width | Height | Wet Weight Lbs (kg) |
|----------------|-----------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|------------------------|-------------------------|-------------------|-------------------|-------------------|---------------------|-------------|--------------|---------------------|
| 903 | US REL16-2V XC2 | 832 | 886 | 962 | 978 | 1024 | 1100 | 1179 | 1218 | 1250 | 2 | Large "L" | 1100 | 845 | 1177 | 2826 | 12-7/16 (315) | 7-1/8 (181) | 16-3/4 (425) | 114(51.7) |

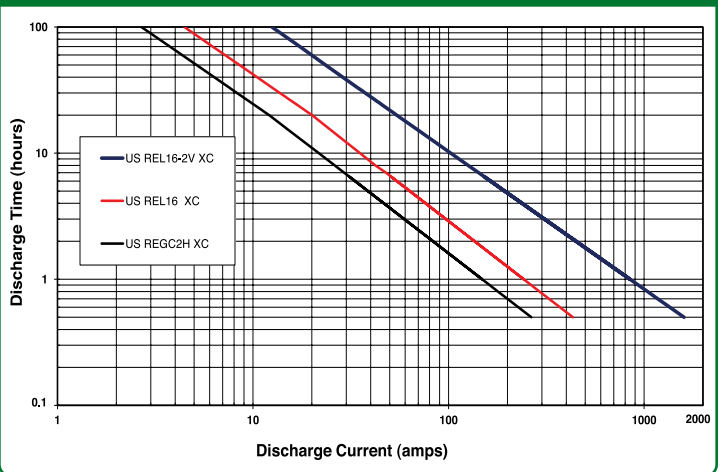
TERMINAL OPTIONS:



VENT CAP OPTIONS:



US RE L16 2V XC2 DISCHARGE TIME VS CURRENT @80° F



Battery Watering Technologies

Battery Watering Technologies Single Point Watering System

feature innovative valve designs, including the new **SENSE SMART VALVE™** available exclusively for U.S. Battery. All BWT valves are manufactured with the highest quality materials that keep all working parts above the battery cell. The spark arrestor makes this the safest watering system available. The BWT system fits on every FLA battery we manufacture and on every configuration. Water flows through a single connection reducing labor cost by accurately filling each



battery set in less than 30 seconds! The innovative clip-in valve makes installation of pre-strung systems fast and easy. BWT also offers several water delivery options, the Gravity Fill System is ideal for a small number of batteries when a water source is not readily available. The 2.5 gallon gravity fill tank should be placed at least three feet above the battery tops to ensure sufficient water flow. The Direct Fill Link features a built-in flow indicator and pressure regulator. The pressure sensitive handle reduces pressure down to 10 psi and will handle incoming pressure up to 100 psi. Allowing it to be connected directly to a water source.



Battery Watering Technologies

Flow-Rite Watering System

**EXTERNAL FLAME
ARRESTOR**



**LARGE FLAME
ARRESTORS DE-GAS
CHAMBER**

WINGED VALVES

**POLYPROPYLENE
CONSTRUCTION**

PROTECTIVE SHROUD



valves that are interconnected by manifolds and tubing, allowing the user to fill all cells of the battery from a single remote location. Each valve independently shuts off water flow to its cell when the proper electrolyte level is reached. This allows the operator to fill the batteries perfectly every time without having to monitor each individual cell.

The Pro-Fill On-Board Battery Watering System by Flow-Rite

is specifically designed for use with "golf car" style batteries commonly found in golf cars, sweepers, scrubbers, RVs, pallet jacks, and small solar systems. Based on the same technology as Flow-Rite's Millennium Plus+ valves, the Pro-Fill system is compatible with all Millennium water supplies. The Pro-Fill on-board battery watering system works by replacing the battery's existing vent caps with



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.

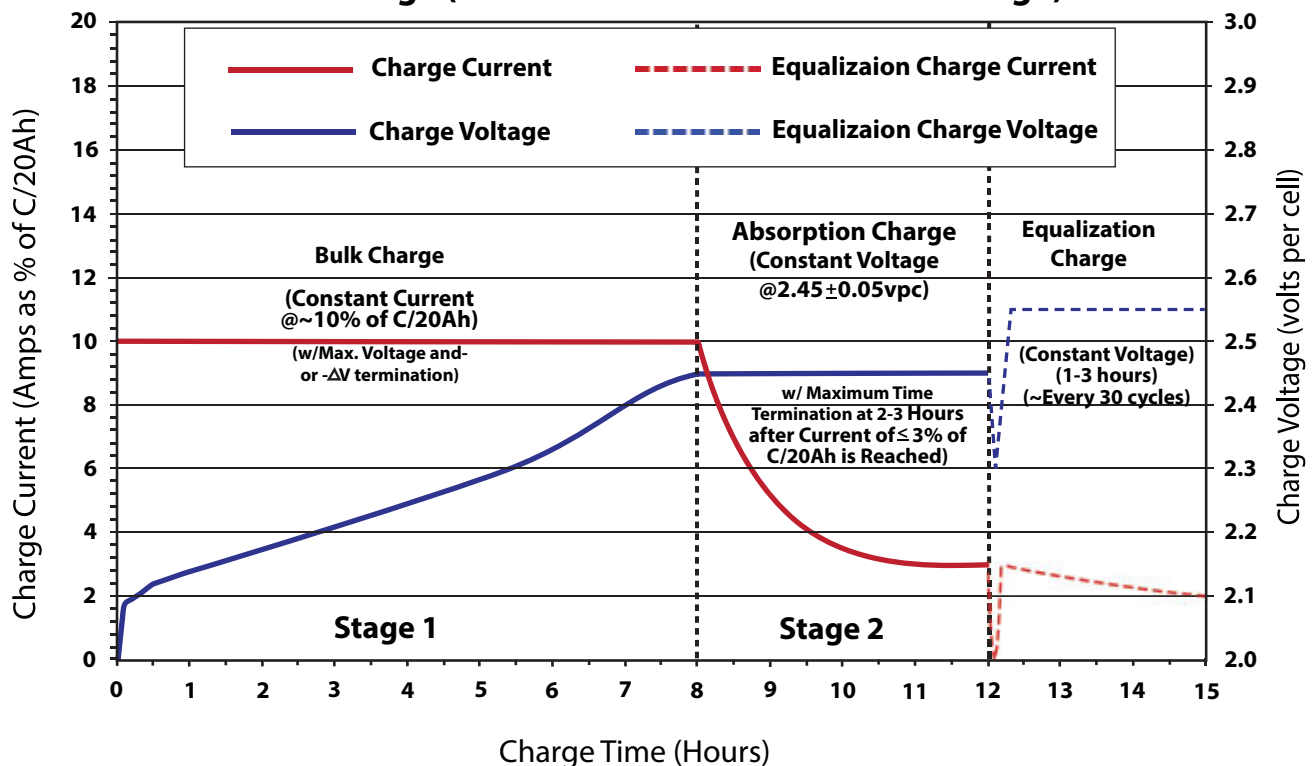
1. **Bulk Charge** Constant current @~10% of C/20 Ah in amps to 2.45+/-0.05 volts per cell (e.g. 7.35 volts +/-0.15 volts per 6 volt battery)
 2. **Absorption Charge** Constant voltage (2.45+/-0.05 vpc) to 3% of C/20 Ah in amps then hold for 2-3 hours and terminate charge. Charge termination can be by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

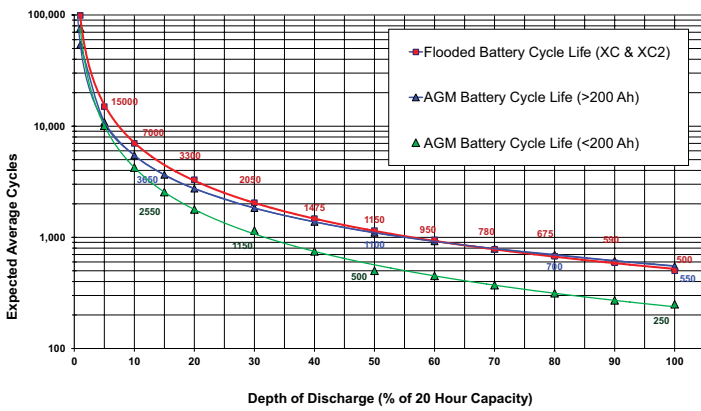
Battery temperature adjustment: Reduce the voltage by 0.028 Volts per cell for every 10°F above 80°F, increase by the same amount for temperatures below 80°F.

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.

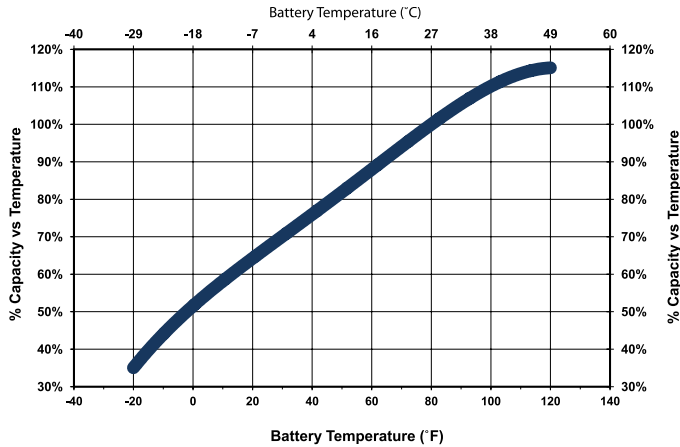
US Battery Recommended Charge Profile 2-Stage (Constant Current - Constant Voltage)



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



BATTERY % CAPACITY VS TEMP



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.

75 Amp Rating

Expressed in minutes; the amount of time it takes a battery to go from fully charged to 1.75 volts per cell using a constant 75 amp discharge at 80°F.

20 Hour Rate

Expressed in Ampere Hours; the total amount of Ampere Hours a fully charged battery can provide in a 20 hour period, reaching a discharge level of 1.75 volts per cell at 80°F. Divide the rating by 20 (hrs) to determine discharge current rate.

6 Hour Rate

Expressed in Ampere Hours; the total amount of Ampere Hours a fully charged battery can provide in a 6 hour period, reaching a discharge level of 1.75 volts per cell at 80°F. Divide the rating by 6 (hrs) to determine discharge current rate.

Convert 20 Hour To 6 Hour Capacity

Multiply 20 Hr. Ampere Hour Capacity by .84 (Divide result by 6 to determine discharge current rate).

Reserve Capacity

Expressed in minutes, the time it takes for a fully charged battery to reach 1.75 volts per cell using a constant 25 amp. discharge at 80°F.

C.C.A. (Cold Cranking Amps)

Expressed in amps., a rating usually applied to S.L.I. (starting, lighting, ignition) batteries; the highest discharge amps, that can be sustained by a fully charged battery over 30 seconds without dropping voltage below 1.2 volts per cell at 0°F.

CA/ M.C.A. (Cranking Amps)

Same as above except that the rating is at 32°F rather than 0°F. The higher temperature will result in an approximate increase in the cranking rate of 22%.

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.

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 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.

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 vary from what is shown in this publication, and U.S. Battery Mfg., Co. makes No warranties, expressed or implied based on the data within this publication.

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Proper Care and Maintenance of Deep Cycle Batteries

- New batteries should be given a full charge before use.
- New deep cycle batteries need to be cycled several times before reaching full capacity (50 - 125 cycles, depending on type). Capacity will be limited during this period. *XC2 formulation can reach full capacity in as few as 25 cycles.
- Battery cables should be intact, and the connectors kept tight at all times. Always use insulated tools to avoid shorting battery terminals. Regular inspection is recommended.
- Vent caps should be correctly installed and tight during vehicle operation and battery charging.
- Batteries should be kept clean and free of dirt and corrosion at all times.
- Batteries should always be watered after charging unless plates are exposed before charging. If exposed, plates should be covered by approximately 1/8" of electrolyte (add distilled water only). Check electrolyte level after charge. The electrolyte level should be kept 1/4" below the bottom of the fill well in the cell cover.
- Water used to replenish batteries should be distilled or treated not to exceed 200 T.D.S. (total dissolved solids...parts per million). Particular care should be taken to avoid metallic contamination (iron).
- For best battery life, batteries should not be discharged below 80% of their rated capacity. Proper battery sizing will help avoid excessive discharge.
- Battery chargers should be matched to fully charge batteries in an eight hour period. Defective and unmatched chargers will damage batteries or severely reduce their performance. Avoid charging at temperatures above 120 F or ambient, whichever is higher.
- 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 charger should have the charge time extended approximately 3 hours. Automatically controlled charger should be unplugged and reconnected after completing a charge.
- In situations where multiple batteries are connected in series, parallel or series/parallel, replacement battery(s) should be of the same size, age and usage level as the companion batteries. Do not put a new battery into a pack which has 50 or more cycles. Either replace with all new or use a good used battery(s).
- Periodic battery testing is an important preventative maintenance procedure. Hydrometer readings of each cell (fully charged) gives an indication of balance and true charge level. Imbalance could mean the need for equalizing; is often a sign of improper charging or a bad cell. Voltage checks (open circuit, charged and discharged) can locate a bad battery or weak battery. Load testing will pick out a bad battery when other methods fail. A weak battery will cause premature failure of companion batteries.
- Always use a matched charger and battery pack system. Unmatched chargers will cause potential problems.
- As batteries age, their maintenance requirements change. This means longer charging time and/or higher finish rate (higher amperage at the end of the charge). Usually older batteries need to be watered more often. And, their capacity decreases.
- Lead acid batteries should be brought up to full charge at the earliest opportunity. Avoid continuously operating batteries in a partially charged condition. This will shorten their life and reduce their capacity.
- Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Discharged batteries may freeze and cause permanent damage. 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.
- Inactivity can be extremely harmful to all lead acid batteries. If seasonal use is anticipated, we recommend the following:
 - A.) Completely charge the battery before storing.
 - B.) Remove all electrical connections from the battery, including series/parallel connectors.
 - C.) Store the battery in as cool a place as possible. However, do not store in a location which will consistently be below 32°F. Batteries will discharge when stored, the lower the temperature the lower the self discharge.
 - D.) When not in use, boost every two months.



U.S. BATTERY - MAINTENANCE LOG

| | | | | | | | |
|--------------------|------------|--------|--------|-------------------|------------|--|------------------|
| CUSTOMER | | | | ADDRESS: | | | |
| DATE OF SERVICE | | | | TIME OF SERVICE: | | | |
| PURCHASE DATE | | | | DISTRIBUTOR NAME: | | | |
| TYPE OF CONTROLLER | | | | SERVICE ENGINEER: | | | |
| CONTROLLER STATUS | Load Shed* | Boost* | Float* | Fault* | CELL TYPE: | | Battery Voltage: |

| CELL NO. | SPECIFIC GRAVITY | CELL VOLTAGE | CELL NO. | SPECIFIC GRAVITY | CELL VOLTAGE | CELL NO. | SPECIFIC GRAVITY | CELL VOLTAGE |
|----------|------------------|--------------|----------|------------------|--------------|----------|------------------|--------------|
| 1 | | | 21 | | | 41 | | |
| 2 | | | 22 | | | 42 | | |
| 3 | | | 23 | | | 43 | | |
| 4 | | | 24 | | | 44 | | |
| 5 | | | 25 | | | 45 | | |
| 6 | | | 26 | | | 46 | | |
| 7 | | | 27 | | | 47 | | |
| 8 | | | 28 | | | 48 | | |
| 9 | | | 29 | | | 49 | | |
| 10 | | | 30 | | | 50 | | |
| 11 | | | 31 | | | 51 | | |
| 12 | | | 32 | | | 53 | | |
| 13 | | | 33 | | | 53 | | |
| 14 | | | 34 | | | 54 | | |
| 15 | | | 35 | | | 55 | | |
| 16 | | | 36 | | | 56 | | |
| 17 | | | 37 | | | 57 | | |
| 18 | | | 38 | | | 58 | | |
| 19 | | | 39 | | | 59 | | |
| 20 | | | 40 | | | 60 | | |

| | | | | | | | | |
|------------------------|--|--|------------------------|--|--|------------------------|--|--|
| PILOT CELL TEMPERATURE | | | PILOT CELL TEMPERATURE | | | PILOT CELL TEMPERATURE | | |
|------------------------|--|--|------------------------|--|--|------------------------|--|--|

| BATTERY CHECK LIST | | | | | BOOST CHARGE | | | |
|--|----------|---------|------|-----|------------------------------|-------|-------|--|
| BATTERY TOPS CLEAN AND DRY | | | YES | NO | BOOST CURRENT | | AMPS | |
| ENSURE VENT CAPS ARE CLEAN AND TIGHT | | | YES | NO | DURATION OF BOOST CHARGE | | HOURS | |
| BATTERY TERMINAL CONNECTIONS TIGHT | | | YES | NO | END OF CHARGE CELL S.G. | MAX | MIN | |
| TERMINAL CONNECTION SAFETY CAPS REPLACED | | | YES | NO | END OF CHARGE MAX. CELL TEMP | MAX | MIN | |
| ELECTROLYTE LEVELS | AS FOUND | CORRECT | HIGH | LOW | END OF CHARGE MAX. CELL TEMP | °F/°C | | |
| | AS LEFT | CORRECT | HIGH | LOW | | | | |

NOTES:

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Value

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