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

#### DEEP CYCLE Flooded Lead Acid 6-VOLT

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>US 1800, 2000 &amp; 2200 XC2</td>
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<td>US 145 XC2</td>
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<tr>
<td>US 250 XC2 - SERIES</td>
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<td>US 305 XC2 - SERIES</td>
<td>9</td>
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<td>US L16 XC2 - SERIES</td>
<td>10</td>
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<td>US 100DIN XC2</td>
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#### DEEP CYCLE Flooded Lead Acid 8-VOLT

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>Page</th>
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<tbody>
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<td>US 8VGC XC2 - SERIES</td>
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<td>US 8VHATB XC2</td>
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</tr>
</tbody>
</table>

#### DEEP CYCLE Flooded Lead Acid 12-VOLT

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>Page</th>
</tr>
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<tbody>
<tr>
<td>US 24DC XC2</td>
<td>16</td>
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<td>US 27DC XC2</td>
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<td>US 31DC XC2</td>
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<td>US 12VE XC2</td>
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<td>US 12VRX XC2 (Cover options US 12V and US 12VZX)</td>
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<td>US 185 XC2 - SERIES</td>
<td>21</td>
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</table>

#### RENEWABLE - DEEP CYCLE Flooded Lead Acid 6-VOLT

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<th>Battery Type</th>
<th>Page</th>
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<tr>
<td>US REGC2H XC2</td>
<td>23</td>
</tr>
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<td>US REL16 XC2</td>
<td>24</td>
</tr>
</tbody>
</table>

#### RENEWABLE - DEEP CYCLE Flooded Lead Acid 2-VOLT

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>US REL16-2V XC2</td>
<td>25</td>
</tr>
</tbody>
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#### SINGLE POINT WATERING SYSTEMS

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<th>Component</th>
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<td>Battery Watering Technologies</td>
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<td>Flow-Rite Controls</td>
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#### CHARGING & MAINTENANCE

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<td>31</td>
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</tbody>
</table>
6-Volt Deep Cycle Batteries

DATA SHEET Deep Cycle 6-Volt

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


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

Case material: Polypropylene / Heat Sealed

For more information or questions, please visit WWW.USBATTERY.COM
Application: Wherever Deep Cycle 6-volt batteries are needed.


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

Case material: Polypropylene / Heat Sealed

**US 125 XC2 - DATA SHEET**

Deep Cycle 6-Volt

**TERMINAL OPTIONS:**
- UTL
- UT
- OFF-SET “S”
- DUAL
- SAE
- LARGE “L”
- SMALL “L”

**VENT CAP OPTIONS:**
- SpeedCap®
- Bayonet

**US 125 XC2 DISCHARGE TIME VS CURRENT @80°F**

Discharge Time vs Current @80°F

<table>
<thead>
<tr>
<th>Discharge Time (hours)</th>
<th>Discharge Current (amps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>1</td>
</tr>
<tr>
<td>100</td>
<td>10</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>100</td>
<td>500</td>
</tr>
</tbody>
</table>

**US 125 XC2 - SPECIFICATIONS**

<table>
<thead>
<tr>
<th>BCI Group</th>
<th>Model</th>
<th>Standard Terminal Type</th>
<th>AMP HOURS @ 75 AMPS</th>
<th>MINUTES @ 56 AMPS</th>
<th>MINUTES @ 25 AMPS</th>
<th>Weight Lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC2</td>
<td>US 125 XC2</td>
<td>UTL</td>
<td>242</td>
<td>140</td>
<td>517</td>
<td>66 (30)</td>
</tr>
</tbody>
</table>
US 145 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 11-7/8 (302)H

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

Case material: Polypropylene / Heat Sealed

US 145 XC2 - SPECIFICATIONS

<table>
<thead>
<tr>
<th>BCI Group</th>
<th>Model</th>
<th>1-hr Rate</th>
<th>2-hr Rate</th>
<th>5-hr Rate</th>
<th>6-hr Rate</th>
<th>10-hr Rate</th>
<th>20-hr Rate</th>
<th>48-hr Rate</th>
<th>72-hr Rate</th>
<th>100-hr Rate</th>
<th>Voltage</th>
<th>Standard Terminal Type</th>
<th>AMP HOURS @ 20 HR. RATE</th>
<th>AMP MINUTES @ 75 AMPS</th>
<th>AMP MINUTES @ 56 AMPS</th>
<th>AMP MINUTES @ 25 AMPS</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
</table>

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

VENT CAP OPTIONS:
- SpeedCap®
- Bayonet

US 145 XC2 DISCHARGE TIME VS CURRENT @80˚ F
Discharge Time vs Current @80˚F

For more information or questions, please visit WWW.USBATTERY.COM
**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**

**DATA SHEET** Deep Cycle 6 -Volt

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**BCI Group Size**

<table>
<thead>
<tr>
<th>BCI Group Size</th>
<th>Model</th>
<th>1-hr Rate</th>
<th>2-hr Rate</th>
<th>5-hr Rate</th>
<th>10-hr Rate</th>
<th>20-hr Rate</th>
<th>48-hr Rate</th>
<th>72-hr Rate</th>
<th>Voltage Standard Terminal Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>901</td>
<td>US 250 XC2</td>
<td>173</td>
<td>191</td>
<td>217</td>
<td>223</td>
<td>255</td>
<td>270</td>
<td>277</td>
<td>284 Offset “S” 255 159 224 570</td>
</tr>
<tr>
<td>901</td>
<td>US 250HC XC2</td>
<td>192</td>
<td>211</td>
<td>239</td>
<td>245</td>
<td>263</td>
<td>280</td>
<td>296</td>
<td>304 Offset “S” 280 178 250 635</td>
</tr>
</tbody>
</table>

**TERMINAL OPTIONS:**

- OFF-SET “S”
- UT
- UTL
- DUAL
- SAE
- LARGE “L”
- SMALL “L”

**VENT CAP OPTIONS:**

- SpeedCap®
- Bayonet

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**US 250 XC2, US 250HC XC2 - SPECIFICATIONS**

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**Discharge Time vs Current @ 80°F**

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**Discharge Time (hours)**

**Discharge Current (amps)**

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**This Print Contains Confidential Information Which Is the Property of US Battery MFG. Co. and by Accepting This Information the Borrower Agrees That It Will Not Be Used For Any Purpose Other Than That For Which It Is Loaned.**
**US 305E XC2, US 305 XC2, US 305HC XC2**

**DATA SHEET** Deep Cycle 6 -Volt

**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**

<table>
<thead>
<tr>
<th>BCI Group Size</th>
<th>Model</th>
<th>1-hr Rate</th>
<th>2-hr Rate</th>
<th>5-hr Rate</th>
<th>6-hr Rate</th>
<th>10-hr Rate</th>
<th>20-hr Rate</th>
<th>48-hr Rate</th>
<th>72-hr Rate</th>
<th>100-hr Rate</th>
<th>Voltage</th>
<th>Standard Terminal Type</th>
<th>AMP HOURS (20 HR. RATE)</th>
<th>MINUTES @ 75 AMPS</th>
<th>MINUTES @ 56 AMPS</th>
<th>MINUTES @ 25 AMPS</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
<th>Wet Weight Lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>902</td>
<td>US 305 XC2</td>
<td>203</td>
<td>226</td>
<td>261</td>
<td>268</td>
<td>294</td>
<td>310</td>
<td>328</td>
<td>337</td>
<td>345</td>
<td>6</td>
<td>Offset “S”</td>
<td>310</td>
<td>195</td>
<td>276</td>
<td>715</td>
<td>(302)</td>
<td>(181)</td>
<td>(371)</td>
<td>90</td>
<td>(43)</td>
</tr>
</tbody>
</table>

**TERMINAL OPTIONS:**

- Standard
- Offset “S”
- UT
- UTL
- DUAL
- SAE
- LARGE “L”
- SMALL “L”
- FLAT BLOCK

**VENT CAP OPTIONS:**

- SpeedCap®
- Bayonet

For more information or questions, please visit [WWW.USBATTERY.COM](http://WWW.USBATTERY.COM)

**Deep Cycle 6-Volt**

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

**Dimensions: (Without Handles)**

**Dimensions: (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

---


<table>
<thead>
<tr>
<th>BCI Group Size</th>
<th>Model</th>
<th>1-hr Rate</th>
<th>2-hr Rate</th>
<th>5-hr Rate</th>
<th>6-hr Rate</th>
<th>10-hr Rate</th>
<th>20-hr Rate</th>
<th>48-hr Rate</th>
<th>72-hr Rate</th>
<th>100-hr Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>903</td>
<td>US L16E XC2</td>
<td>193</td>
<td>223</td>
<td>270</td>
<td>281</td>
<td>312</td>
<td>360</td>
<td>381</td>
<td>391</td>
<td>400</td>
</tr>
<tr>
<td>903</td>
<td>US L16 XC2</td>
<td>220</td>
<td>251</td>
<td>297</td>
<td>307</td>
<td>337</td>
<td>385</td>
<td>408</td>
<td>419</td>
<td>428</td>
</tr>
<tr>
<td>903</td>
<td>US L16HC XC2</td>
<td>239</td>
<td>272</td>
<td>323</td>
<td>335</td>
<td>368</td>
<td>420</td>
<td>445</td>
<td>457</td>
<td>467</td>
</tr>
</tbody>
</table>

**Voltage**
- Standard Terminal Type: Large “L”
- 360 @ 75 AMPS
- 198 @ 56 AMPS
- 287 @ 25 AMPS
- 795 @ 10 HR

**Dimensions: (Without Handles)**

**Dimensions: (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

---

**TERMINAL OPTIONS:**
- LARGE “L”
- UT
- UTL
- DUAL
- SAE
- OFF-SET “S”
- SMALL “L”
- FLAT BLOCK

**VENT CAP OPTIONS:**
- SpeedCap®
- Bayonett
For more information or questions, please visit WWW.USBATTERY.COM
8-Volt Deep Cycle Batteries
US 8VGCE XC2, US 8VGC XC2, US 8VGCHC XC2

DATA SHEET Deep Cycle 8-Volt

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


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

Case material: Polypropylene / Heat Sealed

TERMINAL OPTIONS:

VENT CAP OPTIONS:

SpeedCap®
(not available on US 8VGCi)

Bayonet

For more information or questions, please visit WWW.USBATTERY.COM
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**

<table>
<thead>
<tr>
<th>BCI Group Size</th>
<th>Model</th>
<th>1-hr Rate</th>
<th>2-hr Rate</th>
<th>5-hr Rate</th>
<th>6-hr Rate</th>
<th>10-hr Rate</th>
<th>20-hr Rate</th>
<th>48-hr Rate</th>
<th>72-hr Rate</th>
<th>100-hr Rate</th>
<th>Voltage</th>
<th>Standard Terminal Type</th>
<th>AMP HOURS @ (20 HR. RATE)</th>
<th>MINUTES @ 75 AMPS</th>
<th>MINUTES @ 56 AMPS</th>
<th>MINUTES @ 25 AMPS</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight (Lbs (kg))</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC8H</td>
<td>US 8VHATB</td>
<td>128</td>
<td>145</td>
<td>170</td>
<td>177</td>
<td>188</td>
<td>205</td>
<td>216</td>
<td>221</td>
<td>225</td>
<td>8</td>
<td>UTL</td>
<td>205</td>
<td>115</td>
<td>164</td>
<td>435</td>
<td>10-1/4</td>
<td>7-1/8</td>
<td>11-7/8</td>
<td>73 (33)</td>
</tr>
</tbody>
</table>

**TERMINAL OPTIONS:**

- STANDARD
  - UTL
  - UT
  - OFF-SET "S"
  - SAE

- LARGE "L"
- SMALL "L"

**VENT CAP OPTIONS:**

- SpeedCap®
- Bayonet

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

---
12-Volt Deep Cycle Batteries
**US 24DC XC2 - DATA SHEET**
Deep Cycle 12-Volt

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

**Dimensions:**

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

**Case material:** Polypropylene / Heat Sealed

---

### US 24DC XC2 - SPECIFICATIONS

<table>
<thead>
<tr>
<th>BCI Group Size</th>
<th>Model</th>
<th>1-hr Rate</th>
<th>2-hr Rate</th>
<th>5-hr Rate</th>
<th>6-hr Rate</th>
<th>10-hr Rate</th>
<th>20-hr Rate</th>
<th>48-hr Rate</th>
<th>72-hr Rate</th>
<th>100-hr Rate</th>
<th>Standard Terminal Type</th>
<th>AMP HOURS @ 75 AMPS</th>
<th>MINUTES @ 56 AMPS</th>
<th>MINUTES @ 25 AMPS</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
<th>Lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>US 24DC XC2</td>
<td>52</td>
<td>68</td>
<td>70</td>
<td>76</td>
<td>85</td>
<td>90</td>
<td>92</td>
<td>95</td>
<td>12</td>
<td>SAE/bolt</td>
<td>85</td>
<td>38</td>
<td>54</td>
<td>145</td>
<td>6-3/4 (171)</td>
<td>9-3/8 (238)</td>
<td>51 (23)</td>
<td></td>
</tr>
</tbody>
</table>

**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.


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

Case material: Polypropylene / Heat Sealed

US 27DC XC2 - SPECIFICATIONS

<table>
<thead>
<tr>
<th>BCI Group Size</th>
<th>Model</th>
<th>1-hr Rate</th>
<th>2-hr Rate</th>
<th>5-hr Rate</th>
<th>6-hr Rate</th>
<th>10-hr Rate</th>
<th>20-hr Rate</th>
<th>48-hr Rate</th>
<th>72-hr Rate</th>
<th>100-hr Rate</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>US 27DC XC2</td>
<td>69</td>
<td>78</td>
<td>89</td>
<td>91</td>
<td>97</td>
<td>105</td>
<td>111</td>
<td>117</td>
<td>12</td>
<td>SAE/bolt</td>
</tr>
</tbody>
</table>

AMP HOURS @ 75 AMPS: 105
MINUTES @ 56 AMPS: 54
MINUTES @ 25 AMPS: 77
MINUTES @ 205: 205
Length 12-3/4 (324)
Width 6-3/4 (171)
Height 9-3/4 (248)
Weight 59 (26.6)

US 27DC XC2 DISCHARGE TIME VS CURRENT @ 80° F

For more information or questions, please visit WWW.USBATTERY.COM
US 31DC XC2 - DATA SHEET

Deep Cycle 12-Volt

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

Dimensions:

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

Case material: Polypropylene / Heat Sealed

### US 31DC XC2 - SPECIFICATIONS

| BCI Group | Model     | 1-hr Rate | 2-hr Rate | 5-hr Rate | 10-hr Rate | 20-hr Rate | 40-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 (330) | Width (171) | Height (243) | Wet Weight Lbs (kg) |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|---------|----------------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------|-------------|------------------|------------------|
| 31        | US 31DC XC2 | 74        | 84        | 99        | 103       | 114       | 130       | 138       | 141        | 144     | 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

---

**US 12VE XC2 - SPECIFICATIONS**

<table>
<thead>
<tr>
<th>BCI Group Size</th>
<th>Model</th>
<th>1-hr Rate</th>
<th>2-hr Rate</th>
<th>5-hr Rate</th>
<th>6-hr Rate</th>
<th>10-hr Rate</th>
<th>20-hr Rate</th>
<th>48-hr Rate</th>
<th>72-hr Rate</th>
<th>100-hr Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC12</td>
<td>US 12VE XC2</td>
<td>77</td>
<td>92</td>
<td>115</td>
<td>118</td>
<td>129</td>
<td>145</td>
<td>155</td>
<td>158</td>
<td>161</td>
</tr>
</tbody>
</table>

*Voltage: 12*

<table>
<thead>
<tr>
<th>Standard Terminal Type</th>
<th>AMP HOURS @ 75 AMPS</th>
<th>MINUTES @ 56 AMPS</th>
<th>MINUTES @ 25 AMPS</th>
<th>Length with Handles</th>
<th>Width</th>
<th>Height</th>
<th>Wet Weight Lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTL</td>
<td>145</td>
<td>62</td>
<td>95</td>
<td>14 (355)</td>
<td>11-3/8 (289)</td>
<td>81 (36.7)</td>
<td></td>
</tr>
</tbody>
</table>

**TERMINAL OPTIONS:**

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

**VENT CAP OPTIONS:**

- SpeedCap®
- Bayonet

**US 12VE XC2 DISCHARGE TIME VS CURRENT @ 80°F**

For more information or questions, please visit [WWW.USBATTERY.COM](http://WWW.USBATTERY.COM)
**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

---

**US 12VRX XC2 - SPECIFICATIONS**

<table>
<thead>
<tr>
<th>BCI Group Size</th>
<th>Model</th>
<th>AMP HOURS @ 20 HR. RATE</th>
<th>MINUTES @ 75 AMPS</th>
<th>MINUTES @ 55 AMPS</th>
<th>MINUTES @ 25 AMPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC12</td>
<td>US 12VRX XC2</td>
<td>104</td>
<td>155</td>
<td>77</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td></td>
<td>126</td>
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<tr>
<td></td>
<td></td>
<td>122</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Standard Terminal Type:** UTL

**Standard on US 12VRX XC2**

**TERMINAL OPTIONS:**
- Standard on US 12V & US 12VXZ
- MOLED-IN UTL
- UT
- LARGE "L"
- SMALL "L"
- DUAL
- FLAT BLOCK

**VENT CAP OPTIONS:**
- SpeedCap®
- Bayonet

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

For more information or questions, please visit WWW.USBATTERY.COM
RE 6 & 2 -Volt Deep Cycle Batteries
**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

<table>
<thead>
<tr>
<th>BCI Group</th>
<th>Model</th>
<th>Size</th>
<th>Voltage</th>
<th>Terminal Type</th>
<th>100-hr Rate</th>
<th>20-hr Rate</th>
<th>50-hr Rate</th>
<th>200-hr Rate</th>
<th>400-hr Rate</th>
<th>600-hr Rate</th>
<th>1000-hr Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC2</td>
<td>US REGC2H XC2</td>
<td>149</td>
<td>167</td>
<td>UTL</td>
<td>242</td>
<td>136</td>
<td>193</td>
<td>507</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TERMINAL OPTIONS:**
- UTL
- UT
- OFF-SET “S”
- DUAL
- SAE
- LARGE “L”
- SMALL “L”

**VENT CAP OPTIONS:**
- SpeedCap®
- Bayonet

---

### US REGC2HXC2 DISCHARGE TIME VS CURRENT @80° F

<table>
<thead>
<tr>
<th>Discharge Time (hours)</th>
<th>Discharge Current (amps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>10</td>
</tr>
<tr>
<td>100</td>
<td>20</td>
</tr>
<tr>
<td>100</td>
<td>30</td>
</tr>
<tr>
<td>100</td>
<td>40</td>
</tr>
</tbody>
</table>

For more information or questions, please visit [WWW.USBATTERY.COM](http://WWW.USBATTERY.COM)
US REL16 XC2 - DATA SHEET
Deep Cycle 6-Volt

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

Dimensions: (Without Handles)

(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

<table>
<thead>
<tr>
<th>BCI Group Size</th>
<th>Model</th>
<th>1-hr Rate</th>
<th>2-hr Rate</th>
<th>5-hr Rate</th>
<th>10-hr Rate</th>
<th>20-hr Rate</th>
<th>48-hr Rate</th>
<th>72-hr Rate</th>
<th>100-hr Rate</th>
<th>Terminal Type</th>
<th>Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>903</td>
<td>US REL16 XC2</td>
<td>242</td>
<td>272</td>
<td>317</td>
<td>326</td>
<td>352</td>
<td>401</td>
<td>425</td>
<td>436</td>
<td>446</td>
<td>6</td>
</tr>
</tbody>
</table>

AMP HOURS @ 75 AMPS

MINUTES @ 56 AMPS

MINUTES @ 25 AMPS

Length with Handles

Width

Height

Wet Weight Lbs (kg)

TERMINAL OPTIONS:

- LARGE “L”
- UT
- UTL
- DUAL
- SAE
- OFF-SET “S”
- SMALL “L”
- FLAT BLOCK

VENT CAP OPTIONS:

- SpeedCap®
- Bayonet

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

Discharge Time (hours) vs Discharge Current (amps) for US REL16 XC2, US REL16/FY XC, US REG63H XC.
**US REL16 2V XC2 - DATA SHEET**

Deep Cycle 2-Volt

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

**Dimensions:**
- **Without Handles:**

- **With Handles:**
  - Size: 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

<table>
<thead>
<tr>
<th>BCI Group Size</th>
<th>Model</th>
<th>1-hr Rate</th>
<th>2-hr Rate</th>
<th>5-hr Rate</th>
<th>6-hr Rate</th>
<th>10-hr Rate</th>
<th>1100 20-Hour Rate</th>
<th>128 200-Hour Rate</th>
<th>Voltage Standard Terminal Type</th>
<th>AMP HOURS @ 75 AMPS</th>
<th>MINUTES @ 56 AMPS</th>
<th>MINUTES @ 25 AMPS</th>
<th>Length with Handles</th>
<th>Width</th>
<th>Height</th>
<th>Weight Lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>903</td>
<td>US REL16-2V XC2</td>
<td>832</td>
<td>886</td>
<td>962</td>
<td>978</td>
<td>1024</td>
<td>1100</td>
<td>1179</td>
<td>1218</td>
<td>1250</td>
<td>Large “L”</td>
<td>1100</td>
<td>845</td>
<td>1177</td>
<td>2826</td>
<td>12-7/16 (315)</td>
</tr>
</tbody>
</table>

**TERMINAL OPTIONS:**
- STANDARD
  - LARGE “L”
  - UT
  - UTL
  - DUAL
- SAE
- OFF-SET “S”
- SMALL “L”
- FLAT BLOCK

**VENT CAP OPTIONS:**
- SpeedCap®
- Bayonet

---

**Dimensions:**
- (Without Handles):
- (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

---

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

**Dimensions:**
- **Without Handles:**

- **With Handles:**
  - Size: 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

---

**For more information or questions, please visit: [WWW.USBATTERY.COM](http://WWW.USBATTERY.COM)**
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.

ELECTROLYTE LEVEL INDICATOR EYE

LOW PROFILE DESIGN

CLIP-IN BASE

SOLID ONE PIECE FLOAT

PROTECTIVE SHROUD

Battery Watering Technologies

model VB-TBU

Battery Watering Technologies
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 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.
**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)

**Charge Current**

<table>
<thead>
<tr>
<th>Charge Voltage (Volts per Cell)</th>
<th>Charge Current (Amps as % of C/20Ah)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>0</td>
</tr>
<tr>
<td>2.1</td>
<td>2</td>
</tr>
<tr>
<td>2.2</td>
<td>4</td>
</tr>
<tr>
<td>2.3</td>
<td>6</td>
</tr>
<tr>
<td>2.4</td>
<td>8</td>
</tr>
<tr>
<td>2.5</td>
<td>10</td>
</tr>
<tr>
<td>2.6</td>
<td>12</td>
</tr>
<tr>
<td>2.7</td>
<td>14</td>
</tr>
<tr>
<td>2.8</td>
<td>16</td>
</tr>
<tr>
<td>2.9</td>
<td>18</td>
</tr>
<tr>
<td>3.0</td>
<td>20</td>
</tr>
</tbody>
</table>

**Charge Voltage**

<table>
<thead>
<tr>
<th>Charge Voltage (Volts per Cell)</th>
<th>Charge Current (Amps as % of C/20Ah)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>0</td>
</tr>
<tr>
<td>2.1</td>
<td>2</td>
</tr>
<tr>
<td>2.2</td>
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<td>2.3</td>
<td>6</td>
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<tr>
<td>2.4</td>
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<tr>
<td>2.5</td>
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<tr>
<td>2.7</td>
<td>14</td>
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<tr>
<td>2.8</td>
<td>16</td>
</tr>
<tr>
<td>2.9</td>
<td>18</td>
</tr>
<tr>
<td>3.0</td>
<td>20</td>
</tr>
</tbody>
</table>

**Stage 1**

- **Bulk Charge**  
  - (Constant Current @~10% of C/20Ah)  
  - (w/Max. Voltage and/or -dV/dt termination)

**Stage 2**

- **Absorption Charge**  
  - (Constant Voltage @2.45 +/- 0.05 vpc)  
  - w/Maximum Time Termination at 2-3 Hours after Current of 3% of C/20Ah is Reached

- **Equalization Charge**  
  - (Constant Voltage)  
    - (1-3 hours)  
    - (~Every 30 cycles)

---
For more information or questions, please visit WWW.USBATTERY.COM

U.S. Battery Recommended Terminal Torque and Connection Hardware

<table>
<thead>
<tr>
<th>U.S. Battery Terminal Type</th>
<th>Recommended Torque (in-lb)</th>
<th>Recommended Torque (ft-lb)</th>
<th>Recommended Connection Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTL 95-105</td>
<td>7.9-8.5</td>
<td>1.1-1.4</td>
<td>SS Hexnut with Lock Washer</td>
</tr>
<tr>
<td>Molded-In UTL 95-105</td>
<td>7.9-8.5</td>
<td>1.6-2.0</td>
<td>SS Hexnut with Lock Washer</td>
</tr>
<tr>
<td>UT 95-105</td>
<td>7.9-8.5</td>
<td>1.6-2.0</td>
<td>SS Hexnut with Lock Washer</td>
</tr>
<tr>
<td>Flat Block 95-105</td>
<td>7.9-8.5</td>
<td>1.6-2.0</td>
<td>SS Hexnut with Lock Washer</td>
</tr>
<tr>
<td>Dual 95-105</td>
<td>7.9-8.5</td>
<td>1.6-2.0</td>
<td>SS Hexnut with Lock Washer</td>
</tr>
<tr>
<td>DC Marine 95-105</td>
<td>7.9-8.5</td>
<td>1.6-2.0</td>
<td>SS Hexnut with Lock Washer</td>
</tr>
<tr>
<td>Off-Set “S” 100-120</td>
<td>8.3-10</td>
<td>1.5-2.2</td>
<td>SS or SS Bolt w/Hexnut &amp; Lock Washer</td>
</tr>
<tr>
<td>Flag 100-120</td>
<td>8.3-10</td>
<td>1.5-2.2</td>
<td>SS or SS Bolt w/Hexnut &amp; Lock Washer</td>
</tr>
<tr>
<td>Large “L” 100-120</td>
<td>8.3-10</td>
<td>1.5-2.2</td>
<td>SS or SS Bolt w/Hexnut &amp; Lock Washer</td>
</tr>
<tr>
<td>Small “L” 100-120</td>
<td>8.3-10</td>
<td>1.5-2.2</td>
<td>SS or SS Bolt w/Hexnut &amp; Lock Washer</td>
</tr>
<tr>
<td>Bus Lug 120-180</td>
<td>10.0-15.0</td>
<td>1.9-3.6</td>
<td>SS Hexnut with Lock Washer</td>
</tr>
<tr>
<td>SAE 50-70</td>
<td>4.3-5.3</td>
<td>No Hardware Supplied</td>
<td></td>
</tr>
</tbody>
</table>

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
4Stainless Steel Hexnut with Stainless Steel Split-Ring Lock Washer (1/2” Positive or 3/8” Positive & 3/8” Negative)
5No 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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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.

C.A./ M.C.A. (Gratking 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%.

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.
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.
<table>
<thead>
<tr>
<th>CELL NO.</th>
<th>SPECIFIC GRAVITY</th>
<th>CELL VOLTAGE</th>
<th>CELL NO.</th>
<th>SPECIFIC GRAVITY</th>
<th>CELL VOLTAGE</th>
<th>CELL NO.</th>
<th>SPECIFIC GRAVITY</th>
<th>CELL VOLTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>41</td>
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**Pilot Cell Temperature**

**Battery Check List**

<table>
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<tr>
<th>Battery Tops Clean and Dry</th>
<th>YES</th>
<th>NO</th>
<th>Boost Current</th>
<th>AMPS</th>
<th>Boost Charge</th>
<th>Duration of Boost Charge</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ensure Vent Caps are Clean and Tight</td>
<td>YES</td>
<td>NO</td>
<td>END of charge Cell S.G.</td>
<td>MAX</td>
<td>END of Charge Max. Cell Temp</td>
<td>MAX</td>
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<tr>
<td>Battery Terminal Connections Tight</td>
<td>YES</td>
<td>NO</td>
<td>END of Charge Max. Cell Temp</td>
<td>MAX</td>
<td>END of Charge Max. Cell Temp</td>
<td>MIN</td>
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<tr>
<td>Terminal Connection Safety Caps Replaced</td>
<td>YES</td>
<td>NO</td>
<td>END of Charge Max. Cell Temp</td>
<td>MAX</td>
<td>END of Charge Max. Cell Temp</td>
<td>MIN</td>
<td></td>
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</table>

**Electrolyte Levels**

<table>
<thead>
<tr>
<th>As Found</th>
<th>Correct</th>
<th>High</th>
<th>Low</th>
<th>End of Charge Max. Cell Temp</th>
<th>°F/°C</th>
</tr>
</thead>
</table>

**Notes:**

For more information or questions, please visit [WWW.USBATTERY.COM](http://WWW.USBATTERY.COM)
Power You Can Depend On!

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Value

Performance

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Evans, GA 30809
(888) 811-0945