**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

### 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.

### VENT CAP OPTIONS:

- **SpeedCap® (Standard)**
- **Bayonet (Space saving lower profile option)**

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**US 100DIN 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>18-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 @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>DIN GC2 US 100DIN XC2</td>
<td>160</td>
<td>177</td>
<td>199</td>
<td>205</td>
<td>222</td>
<td>247</td>
<td>254</td>
<td>257</td>
<td>260</td>
<td>6</td>
<td>SAE</td>
<td>247</td>
<td>135</td>
<td>204</td>
<td>520</td>
<td>9-5/8 (244)</td>
<td>7-1/2 (191)</td>
<td>10-7/8 (276)</td>
<td>61 (28)</td>
</tr>
</tbody>
</table>

**TERMINAL TYPE:**

- **SAE**
US 100DIN XC2 - DATA SHEET

Deep Cycle 6 -Volt

Expected Life Cycles vs. DOD (XC, XC2 & AGM)

US 100DIN XC2 Discharge Time vs Current @80° F

Battery % Capacity vs Temp

U.S. Battery Recommended Terminal Torque and Connection Hardware

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

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