AGM
SEALED LOW MAINTENANCE
DATA/SPEC SHEETS

U.S. Battery
Manufacturing Company

WWW.USBATTERY.COM
AGM SEALED LOW MAINTENANCE DATA & SPECIFICATION SHEETS

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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.

Should you require additional information, please visit www.usbattery.com

All of our sealed AGM batteries are specifically manufactured for U.S. Battery under our guidelines assuring our customers they are being provided the highest quality AGM batteries available.
**US AGM 2000 DATA SHEET**

Sealed Low Maintenance 6-Volt

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**Application:** Wherever Sealed Low Maintenance & Leak Proof 6-volt batteries are needed.

**Dimensions:**
- 10.24” (260mm)L
- 7.09” (180mm)W
- 10.79” (274mm)H

**Type:** Sealed Non-Spillable Lead Acid (AGM)

**Case material:** Polypropylene / Heat Sealed

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## CHARGING INSTRUCTIONS:

**Recommended Charge Current**

- With Temperature Compensation: 53 Amps Max.
- Without Temperature Compensation: 19-25 Amps

**Charge Voltage (6 Volts):**
- With Temperature Compensation: 7.2-7.5 volts
- Without Temperature Compensation: 6.6-6.8 volts

**Charge Voltage Temp.:**
- -0.008 V/F°

**Compensation:**
- -0.015 V/C°

Do not charge at temperature corrected voltages above 7.5 volts (2.5 volts/cell).

Use of a voltage controlled charger is a requirement for warranty coverage.

For best cycle life, limit discharge to less than 50% of the battery’s 20 hour capacity.

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Deep cycle batteries need to be equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. This extra charge helps keep all cells in balance. Actively used batteries should be equalized once per month. Manually timed chargers should have the charge time extended approximately 3 hours.

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

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**US AGM 2000 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 Standard 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>
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<tbody>
<tr>
<td>GC2</td>
<td>US AGM 2000</td>
<td>136</td>
<td>154</td>
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<td>225</td>
<td>230</td>
<td>235</td>
<td>6 DUAL</td>
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<td>124</td>
<td>177</td>
<td>475</td>
<td>10.24”</td>
<td>7.09”</td>
<td>10.79”</td>
<td>66.1 (30.0)</td>
</tr>
</tbody>
</table>
U.S. Battery Operating Temperature Guidelines

For charging, we recommend staying within 0°F to 120°F (-18 to 49°C) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.

For discharging, we recommend -20°F to 120°F (-29 to 49°C). Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing.

Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal run-away" which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

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**Application:** Wherever Sealed Low Maintenance & Leak Proof 6-volt batteries are needed.

**Dimensions:** 12.05” (306mm)L
6.61” (168mm)W
9.98” (228mm)H

**Type:** Sealed Non-Spillable Lead Acid (AGM)

**Case material:** Polypropylene / Heat Sealed

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### US AGM 6V27 SPECIFICATIONS

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<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>40-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>
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<tr>
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<td>226</td>
<td>231</td>
<td>236</td>
<td>6</td>
<td>T11</td>
<td>214</td>
<td>112</td>
<td>162</td>
<td>450</td>
<td>12.05”</td>
<td>6.61”</td>
<td>9.98”</td>
<td>63.9 (29.0)</td>
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</table>

### CHARGING INSTRUCTIONS:

**Recommended Charge Current**

- With Temperature Compensation
- Without Temperature Compensation

**Cyclic Application**

- Charge Voltage (6 Volts)
- Charge Voltage Temp.
- Compensation

**Float Application**

- Charge Voltage Temp.
- Compensation

Do not charge at temperature corrected voltages above 7.5 volts (2.5 volts/cell).

Use of a voltage controlled charger is a requirement for warranty coverage.

For best cycle life, limit discharge to less than 50% of the battery’s 20 hour capacity.

Deep cycle batteries need to be equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. This extra charge helps keep all cells in balance. Actively used batteries should be equalized once per month. Manually timed chargers should have the charge time extended approximately 3 hours. Automatically controlled chargers should be unplugged and reconnected after completing a charge.

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For more information or questions, please visit [WWW.USBATTERY.COM](http://WWW.USBATTERY.COM)
U.S. Battery Operating Temperature Guidelines

For charging, we recommend staying within 0°F to 120°F (-18 to 49°C) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.

For discharging, we recommend -20°F to 120°F (-29 to 49°C). Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing.

Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal runaway" which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

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**Application:** Wherever Sealed Low Maintenance & Leak Proof 6-volt batteries are needed.

**Dimensions:** 10.2" (260mm)L  
7.09" (180mm)W  
9.72" (247mm)H

**Type:** Sealed Non-Spillable Lead Acid (AGM)

**Case material:** Polypropylene / Heat Sealed

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### US AGM 2224 SPECIFICATIONS

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<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>
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<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>
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<tbody>
<tr>
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<td>US AGM 2224</td>
<td>133</td>
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<td>6</td>
<td>T11</td>
<td>224</td>
<td>120</td>
<td>171</td>
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<td>10.2&quot;</td>
<td>7.09&quot;</td>
<td>9.72&quot;</td>
<td>65.9 (29.9)</td>
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### CHARGING INSTRUCTIONS:

**Recommended Charge Current**

- With Temperature Compensation: 56 Amps Max.
- Without Temperature Compensation: 19-25 Amps

**Cyclic Application**

Charge Voltage (6 Volts): 7.2-7.5 volts
Charge Voltage Temp.: -0.008 V/F°
Compensation: -0.015 V/C°

**Float Application**

- With Temperature Compensation: 56 Amps Max.
- Without Temperature Compensation: 19-25 Amps

Charge Voltage Temp.: -0.008 V/F°
Compensation: -0.015 V/C°

Do not charge at temperature corrected voltages above 7.5 volts (2.5 volts/cell).

Use of a voltage controlled charger is a requirement for warranty coverage.

For best cycle life, limit discharge to less than 50% of the battery’s 20 hour capacity.

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.
U.S. Battery Operating Temperature Guidelines

For charging, we recommend staying within 0°F to 120°F (-18 to 49°C) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.

For discharging, we recommend -20°F to 120°F (-29 to 49°C). Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing. Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal run-away", which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

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**US AGM 250 DATA SHEET**
Sealed Low Maintenance 6-Volt

**Application:** Wherever Sealed Low Maintenance & Leak Proof 6-volt batteries are needed.

**Dimensions:** 11.61” (295mm)L 7.09” (180mm)W 11.73” (298mm)H

**Type:** Sealed Non-Spillable Lead Acid (AGM)

**Case material:** Polypropylene / Heat Sealed

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**US AGM 250 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>40-hr Rate</th>
<th>60-hr Rate</th>
<th>Voltage (6 Volts)</th>
<th>Standard Voltage (20 HR. RATE)</th>
<th>AMP HOURS @ 75 AMPS</th>
<th>MINUTES @ 55 AMPS</th>
<th>MINUTES @ 25 AMPs</th>
<th>Length</th>
<th>Width (11.61”)</th>
<th>Height (11.73”)</th>
<th>Weight (79.3 Lbs (36.0))</th>
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<tr>
<td>901</td>
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<td>158</td>
<td>179</td>
<td>212</td>
<td>219</td>
<td>240</td>
<td>260</td>
<td>274</td>
<td>281</td>
<td>287</td>
<td>DUAL</td>
<td>260</td>
<td>149</td>
<td>213</td>
<td>572</td>
<td>11.61” (295)</td>
<td>11.73” (298)</td>
<td>79.3 (36.0)</td>
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</tbody>
</table>

**CHARGING INSTRUCTIONS:**

<table>
<thead>
<tr>
<th>Recomended Charge Current</th>
<th>Cyclic Application</th>
<th>Float Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>-With Temperature Compensation</td>
<td>65 Amps Max.</td>
<td>65 Amps Max.</td>
</tr>
<tr>
<td>-Without Temperature Compensation</td>
<td>23-28 Amps</td>
<td>23-28 Amps</td>
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<tr>
<td>Charge Voltage (6 Volts)</td>
<td>7.2-7.5 volts</td>
<td>6.6-6.8 volts</td>
</tr>
<tr>
<td>Charge Voltage Temp.</td>
<td>-0.008 V/F°</td>
<td>-0.008 V/F°</td>
</tr>
<tr>
<td>Compensation</td>
<td>-0.015 V/C°</td>
<td>-0.015 V/C°</td>
</tr>
</tbody>
</table>

Do not charge at temperature corrected voltages above 7.5 volts (2.5 volts/cell).

Use of a voltage controlled charger is a requirement for warranty coverage.

For best cycle life, limit discharge to less than 50% of the battery’s 20 hour capacity.

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.
U.S. Battery Operating Temperature Guidelines

For charging, we recommend staying within 0°F to 120°F (-18 to 49°C) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.

For discharging, we recommend -20°F to 120°F (-29 to 49°C). Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing. Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal runaway" which may lead to an explosion or fire. If extreme temperature is an avoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

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US AGM 305
DATA SHEET
Sealed Low Maintenance 6-Volt

Application: Wherever Sealed Low Maintenance & Leak Proof 6-volt batteries are needed.

Dimensions: 11.61” (295mm)L
7.09” (180mm)W
14.41” (366mm)H

Type: Sealed Non-Spillable Lead Acid (AGM)

Case material: Polypropylene / Heat Sealed

US AGM 305 SPECIFICATIONS

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<th>BCI Group Size</th>
<th>Model</th>
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<th>5-hr Rate</th>
<th>6-hr Rate</th>
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<th>20-hr Rate</th>
<th>48-hr Rate</th>
<th>72-hr Rate</th>
<th>100-hr Rate</th>
<th>Standard Voltage</th>
<th>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>
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<td>6 DUAL</td>
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<td>208</td>
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<td>736</td>
<td>11.61” (295)</td>
<td>7.09” (180)</td>
<td>14.41” (366)</td>
<td>105.1 (47.7)</td>
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CHARGING INSTRUCTIONS:

Recomended Charge Current

- With Temperature Compensation: 78 Amps Max.
- Without Temperature Compensation: 30-35 Amps

Charge Voltage (6 Volts)

7.2-7.5 volts

Charge Voltage Temp.

-0.008 V/F°

Compensation

-0.015 V/C°

Do not charge at temperature corrected voltages above 7.5 volts (2.5 volts/cell).

Use of a voltage controlled charger is a requirement for warranty coverage.

For best cycle life, limit discharge to less than 50% of the battery’s 20 hour capacity.

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.

For more information or questions, please visit WWW.USBATTERY.COM
US AGM 305 DATA SHEET
Sealed Low Maintenance 6-Volt

U.S. Battery Operating Temperature Guidelines
For charging, we recommend staying within 0°F to 120°F (-18 to 49°C) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.
For discharging, we recommend -20°F to 120°F (-29 to 49°C).
Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing.
Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal run-away" which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

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US AGM L16
DATA SHEET
Sealed Low Maintenance 6-Volt

Application: Wherever Sealed Low Maintenance & Leak Proof 6-volt batteries are needed.

Dimensions: 11.61" (295mm)L
7.09" (180mm)W
16.85" (428mm)H

Type: Sealed Non-Spillable Lead Acid (AGM)

Case material: Polypropylene / Heat Sealed

CHARGING INSTRUCTIONS:

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.

Recommended Charge Current
- With Temperature Compensation 98 Amps Max.
- Without Temperature Compensation 38-45 Amps
Charge Voltage (6 Volts) 7.2-7.5 volts
Charge Voltage Temp. -0.008 V/F°
Compensation -0.015 V/C°

Cyclic Application
98 Amps Max.
38-45 Amps
7.2-7.5 volts
-0.008 V/F°
-0.015 V/C°

Float Application
98 Amps Max.
38-45 Amps
6.6-6.8 volts
-0.008 V/F°
-0.015 V/C°

For more information or questions, please visit WWW.USBATTERY.COM
For charging, we recommend staying within 0°F to 120°F (-18 to 49°C) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.

For discharging, we recommend -20°F to 120°F (-29 to 49°C). Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing. Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal run-away" which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

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Application: Wherever Sealed Low Maintenance & Leak Proof 8-volt batteries are needed.

Dimensions: 10.24” (260mm) L 7.09” (180mm) W 10.79” (274mm) H

Type: Sealed Non-Spillable Lead Acid (AGM)

Case material: Polypropylene / Heat Sealed

US AGM 8V170 SPECIFICATIONS

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<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>15-hr Rate</th>
<th>20-hr Rate</th>
<th>48-hr Rate</th>
<th>72-hr Rate</th>
<th>100-hr Rate</th>
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<tbody>
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<td>GC8</td>
<td>US AGM 8V170</td>
<td>125</td>
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<td>178</td>
<td>180</td>
<td>8</td>
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</tbody>
</table>

Recommended Charge Current | Cyclic Application | Float Application

- With Temperature Compensation: 40 Amps Max. 15-19 Amps 8.8-9.1 volts
- Without Temperature Compensation: 9.6-10 volts
- Charge Voltage Temp. Compensation: -0.011 V/F° -0.020 V/C°

Do not charge at temperature corrected voltages above 10 volts (2.5 volts/cell).

Use of a voltage controlled charger is a requirement for warranty coverage.

For best cycle life, limit discharge to less than 50% of the battery’s 20 hour capacity.

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.

For more information or questions, please visit www.usbattery.com
US AGM 8V170
DATA SHEET
Sealed Low Maintenance 8-Volt

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

US AGM 8V170 DISCHARGE TIME VS CURRENT @80°F

BATTERY % CAPACITY VS TEMP

U.S. Battery Operating Temperature Guidelines
For charging, we recommend staying within 0°F to 120°F (-18 to 49°C) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.

For discharging, we recommend -20°F to 120°F (-29 to 49°C). Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing. Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal runaway" which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

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**Application:** Wherever Sealed Low Maintenance & Leak Proof 12-volt batteries are needed.

**Dimensions:** 7.68” (195mm)L 
5.12” (130mm)W 
7.09” (180mm)H

**Type:** Sealed Non-Spillable Lead Acid (AGM)

**Case material:** Polypropylene / Heat Sealed

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### US AGM U1 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 @ 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 @ wet</th>
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<td>US AGM U1</td>
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<td>30.4</td>
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<td>36.9</td>
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<td>38.6</td>
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<td>19</td>
<td>51</td>
<td>7.68</td>
<td>5.12</td>
<td>7.09</td>
<td>23.7 (10.8)</td>
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</tbody>
</table>

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### CHARGING INSTRUCTIONS:

**Recommended Charge Current**
- With Temperature Compensation: 9 Amps Max.
- Without Temperature Compensation: 3-5 Amps

**Charge Voltage (12 Volts):** 14.4-15 volts

**Charge Voltage Temp.:** -0.017 V/F°

**Compensation:** -0.030 V/C°

Do not charge at temperature corrected voltages above 15 volts (2.5 volts/cell).
Use of a voltage controlled charger is a requirement for warranty coverage.
For best cycle life, limit discharge to less than 50% of the battery’s 20 hour capacity.

Deep cycle batteries need to be equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. This extra charge helps keep all cells in balance. Actively used batteries should be equalized once per month. Manually timed chargers should have the charge time extended approximately 3 hours. Automatically controlled chargers should be unplugged and reconnected after completing a charge.

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For more information or questions, please visit [WWW.USBATTERY.COM](http://WWW.USBATTERY.COM)
**US AGM U1**
Sealed Low Maintenance 12-Volt

**U.S. Battery Operating Temperature Guidelines**

*For charging*, we recommend staying within 0°F to 120°F (-18 to 49°C) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.

*For discharging*, we recommend -20°F to 120°F (-29 to 49°C). Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing.

Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal runaway", 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 this problem.

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**Application:** Wherever Sealed Low Maintenance & Leak Proof 12-volt batteries are needed.

**Dimensions:** 12.05” (306mm)L 6.61” (168mm)W 9.06” (230mm)H

**Type:** Sealed Non-Spillable Lead Acid (AGM)

**Case material:** Polypropylene / Heat Sealed

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**US AGM 27 SPECIFICATIONS**

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<thead>
<tr>
<th>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>40-hr Rate</th>
<th>60-hr Rate</th>
<th>90-hr Rate</th>
<th>100-hr Rate</th>
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<td>66</td>
<td>73</td>
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<td>107</td>
<td>109</td>
<td>12</td>
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**Recommended Charge Current**

- With Temperature Compensation
  - Charge Voltage (12 Volts)
  - Charge Voltage Temp.
  - Compensation

- Without Temperature Compensation
  - Charge Voltage (12 Volts)
  - Charge Voltage Temp.
  - Compensation

**Cyclic Application**

- 25 Amps Max.
- 8-12 Amps
- 14.4-15 volts
- -0.017 V/F°C
- -0.030 V/C°

**Float Application**

- 25 Amps Max.
- 8-12 Amps
- 13.2-13.6 volts
- -0.017 V/F°C
- -0.030 V/C°

Do not charge at temperature corrected voltages above 15 volts (2.5 volts/cell).

Use of a voltage controlled charger is a requirement for warranty coverage.

For best cycle life, limit discharge to less than 50% of the battery’s 20 hour capacity.

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Deep cycle batteries need to be equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. This extra charge helps keep all cells in balance. Actively used batteries should be equalized once per month. Manually timed chargers should have the charge time extended approximately 3 hours. Automatically controlled chargers should be unplugged and reconnected after completing a charge.

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For more information or questions, please visit [WWW.USBATTERY.COM](http://WWW.USBATTERY.COM)
U.S. Battery Operating Temperature Guidelines

For charging, we recommend staying within 0°F to 120°F (-18 to 49°C) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.

For discharging, we recommend -20°F to 120°F (-29 to 49°C). Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing.

Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause ‘thermal runaway’ which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

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Application: Wherever Sealed Low Maintenance & Leak Proof 12-volt batteries are needed.

Dimensions: 13.7” (348mm)L
6.85” (174mm)W
9.37” (238mm)H

Type: Sealed Non-Spillable Lead Acid (AGM)

Case material: Polypropylene / Heat Sealed

US AGM 31 SPECIFICATIONS

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<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>40-hr Rate</th>
<th>72-hr Rate</th>
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<th>Voltage (20 HR. RATE)</th>
<th>AMP HOURS @ 75 AMPS</th>
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CHARGING INSTRUCTIONS:

Recomended Charge Current
- With Temperature Compensation: 25 Amps Max.
- Without Temperature Compensation: 8-12 Amps

Charge Voltage (12 Volts):
- 14.4- 15 volts

Charge Voltage Temp.:
- -0.017 V/F°
- -0.030 V/C°

Compensation:
- 8-12 Amps

Do not charge at temperature corrected voltages above 15 volts (2.5 volts/cell).

Use of a voltage controlled charger is a requirement for warranty coverage.

For best cycle life, limit discharge to less than 50% of the battery’s 20 hour capacity.

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.
U.S. Battery Operating Temperature Guidelines

For charging, we recommend staying within 0°F to 120°F (-18 to 49°C) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.

For discharging, we recommend -20°F to 120°F (-29 to 49°C). Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing.

Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal run-away" which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

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**US AGM 12V150 DATA SHEET**

Sealed Low Maintenance 12-Volt

**Application:** Wherever Sealed Low Maintenance & Leak Proof 12-volt batteries are needed.

**Dimensions:** 12.9” (327mm)L 
7.09” (180mm)W 
10.8” (274mm)H

**Type:** Sealed Non-Spillable Lead Acid (AGM)

**Case material:** ABS / Heat Sealed

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**US AGM 12V150 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>Standard Type</th>
<th>AMP HOURS @ 20 HR. RATE</th>
<th>MINUTES @ 75 AMPS</th>
<th>MINUTES @ 56 AMPS</th>
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<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight (Lbs (kg))</th>
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<td>132</td>
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<td>150</td>
<td>159</td>
<td>163</td>
<td>167</td>
<td>T11</td>
<td>150</td>
<td>86</td>
<td>120</td>
<td>310</td>
<td>12.9”</td>
<td>7.09”</td>
<td>10.8”</td>
<td>91.5(41.5)</td>
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**CHARGING INSTRUCTIONS:**

- **Recomended Charge Current**
  - With Temperature Compensation: 37 Amps Max.
  - Without Temperature Compensation: 13-17 Amps
  - Charge Voltage (12 Volts): 14.4-15 volts
  - Charge Voltage Temp. Compensation: -0.017 V/F°C

- **Cyclic Application**
  - 37 Amps Max.
  - 13-17 Amps
  - 14.4-15 volts
  - -0.017 V/F°C

- **Float Application**
  - 37 Amps Max.
  - 13-17 Amps
  - 13.2-13.6 volts
  - -0.017 V/F°C

Do not charge at temperature corrected voltages above 15 volts (2.5 volts/cell).

Use of a voltage controlled charger is a requirement for warranty coverage.

For best cycle life, limit discharge to less than 50% of the battery’s 20 hour capacity.

Deep cycle batteries need to be equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. This extra charge helps keep all cells in balance. Actively used batteries should be equalized once per month. Manually timed chargers should have the charge time extended approximately 3 hours.

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

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

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US AGM 12V150 DATA SHEET
Sealed Low Maintenance 12-Volt

- T11 Terminal
  Unit: mm

U.S. Battery Operating Temperature Guidelines
For charging, we recommend staying within 0°F to 120°F (-18 to 49°C) to avoid charging frozen batteries at low temperature or going into thermal runaway at high temperature.
For discharging, we recommend -20°F to 120°F (-29 to 49°C). Batteries discharged at temperatures below 32°F (0°C) should be recharged immediately to avoid freezing. Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal run-away" which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

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**US AGM 185 SPECIFICATIONS**

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<tr>
<th>BCI Group Size</th>
<th>US AGM 185</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 Type</th>
<th>BCI Terminal</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 (in)</th>
<th>Width (in)</th>
<th>Height (in)</th>
<th>Lbs (kg)</th>
</tr>
</thead>
</table>

**CHARGING INSTRUCTIONS:**

**Recommended Charge Current**
- With Temperature Compensation: 59 Amps Max.
- Without Temperature Compensation: 19-25 Amps

**Cyclic Application**
- Charge Voltage (12 Volts): 14.4-15 volts
- Charge Voltage Temp.: -0.017 V/F°
- Compensation: -0.030 V/C°

**Float Application**
- Charge Voltage Temp.: -0.017 V/F°
- Compensation: -0.030 V/C°

Do not charge at temperature corrected voltages above 15 volts (2.5 volts/cell).
Use of a voltage controlled charger is a requirement for warranty coverage.
For best cycle life, limit discharge to less than 50% of the battery’s 20 hour capacity.

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.

**Application:** Wherever Sealed Low Maintenance & Leak Proof 12-volt batteries are needed.

**Dimensions:** 15.24” (387mm)L
7.09” (180mm)W
14.49” (368mm)H

**Type:** Sealed Non-Spillable Lead Acid (AGM)

**Case material:** Polypropylene / Heat Sealed
EXPECTED LIFE CYCLES VS. DOD (XC, XC2 & AGM)

US AGM 185 DISCHARGE TIME VS CURRENT @80°F

BATTERY % CAPACITY VS TEMP

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 re-charged immediately to avoid freezing.

Batteries discharged at temperatures above 120°F (49°C) should be allowed to cool before recharging.

Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperatures can cause "thermal run-away" which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.

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