AGM
SEALED LOW MAINTENANCE
DATA/SPEC SHEETS

www.usbattery.com
# AGM Sealed Low Maintenance Data & Specification Sheets

## AGM Sealed Low Maintenance 6-Volt

<table>
<thead>
<tr>
<th>Battery Code</th>
<th>Page Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>US AGM 2000</td>
<td>4 - 5</td>
</tr>
<tr>
<td>US AGM 6V27</td>
<td>6 - 7</td>
</tr>
<tr>
<td>US AGM 2224</td>
<td>8 - 9</td>
</tr>
<tr>
<td>US AGM 250</td>
<td>10 - 11</td>
</tr>
<tr>
<td>US AGM 305</td>
<td>12 - 13</td>
</tr>
<tr>
<td>US AGM L16</td>
<td>14 - 15</td>
</tr>
</tbody>
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## AGM Sealed Low Maintenance 8-Volt

<table>
<thead>
<tr>
<th>Battery Code</th>
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<tbody>
<tr>
<td>US AGM 8V170</td>
<td>16 - 17</td>
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## AGM Sealed Low Maintenance 12-Volt

<table>
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<td>18 - 19</td>
</tr>
<tr>
<td>US AGM 27</td>
<td>20 - 21</td>
</tr>
<tr>
<td>US AGM 31</td>
<td>22 - 23</td>
</tr>
<tr>
<td>US AGM 12V150</td>
<td>24 - 25</td>
</tr>
<tr>
<td>US AGM 185</td>
<td>26 - 27</td>
</tr>
</tbody>
</table>
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
**US AGM 2000**  
**DATA SHEET**  
Sealed Low Maintenance 6-Volt

**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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### US AGM 2000 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>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>
</table>

### CHARGING INSTRUCTIONS:

**Recommended Charge Current:**
- With Temperature Compensation: 53 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:**
- Charge Voltage Temp.: 6.6-6.8 volts
- Compensation: -0.008 V/F°

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.
**US AGM 2000 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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**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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<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>40-hr Rate</th>
<th>70-hr Rate</th>
<th>100-hr Rate</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>Lbs (kg)</th>
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<tr>
<td>27</td>
<td>US AGM 6V27</td>
<td>123</td>
<td>142</td>
<td>172</td>
<td>179</td>
<td>195</td>
<td>214</td>
<td>226</td>
<td>231</td>
<td>236</td>
<td>T8</td>
<td>214</td>
<td>112</td>
<td>162</td>
<td>450</td>
<td>6.61”</td>
<td>9.98”</td>
<td>29.0</td>
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</table>

**CHARGING INSTRUCTIONS:**

**Recommended Charge Current**
- With Temperature Compensation: 54 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°C
- Compensation: -0.015 V/C°C

**Float Application**
- Charge Voltage (6 Volts): 6.6-6.8 volts
- Charge Voltage Temp.: -0.008 V/F°C
- Compensation: -0.015 V/C°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 2224
DATA SHEET
Sealed Low Maintenance 6-Volt

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

US AGM 2224 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 @ 20 HR. RATE</th>
<th>MINUTES @ 75 AMPS</th>
<th>MINUTES @ 56 AMPS</th>
<th>MINUTES @ 25 AMPS</th>
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<td>6 T11</td>
<td>224</td>
<td>120</td>
<td>171</td>
<td>450</td>
<td>10.2&quot; (260)</td>
<td>7.09&quot; (180)</td>
<td>9.72 (247)</td>
<td>65.9 (29.9)</td>
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</tbody>
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CHARGING INSTRUCTIONS:

Recemended Charge Current
- With Temperature Compensation 56 Amps Max.
- Without Temperature Compensation 19-25 Amps
Charge Voltage (6 Volts) 7.2-7.5 volts
Charge Voltage Temp. -0.008 V/F°
Compensation -0.015 V/C°

Cyclic Application
- With Temperature Compensation 56 Amps Max.
- Without Temperature Compensation 19-25 Amps
Charge Voltage (6 Volts) 6.6-6.8 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 (6 Volts) 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.

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 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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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

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
- Without Temperature Compensation
Charge Voltage (6 Volts)
Charge Voltage Temp.
Compensation

Cyclic Application
65 Amps Max.
23-28 Amps
7.2-7.5 volts
-0.008 V/F°
-0.015 V/C°

Float Application
65 Amps Max.
23-28 Amps
6.6-6.8 volts
-0.008 V/F°
-0.015 V/C°

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

For more information or questions, please visit WWW.USBATTERY.COM
US AGM 250
DATA SHEET
Sealed Low Maintenance 6-Volt

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

**US AGM 250 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 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

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**US AGM 305 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>60-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>wet Weight Lbs (kg)</th>
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<td>221</td>
<td>242</td>
<td>273</td>
<td>279</td>
<td>299</td>
<td>312</td>
<td>329</td>
<td>337</td>
<td>344</td>
<td>DUAL</td>
<td>312</td>
<td>208</td>
<td>291</td>
<td>736</td>
<td>11.61”</td>
<td>7.09”</td>
<td>14.41”</td>
<td>105.1 (47.7)</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.

**Float Application**

- Charge Voltage Temp.

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.
US AGM 305
DATA SHEET
Sealed Low Maintenance 6-Volt

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

US AGM 305 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 -40°F to 120°F (-40 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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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

US AGM L16 SPECIFICATIONS

| BCI Group Size | Model  | 1-hr Rate | 2-hr Rate | 5-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 | Weight Lbs (kg) | wet |
|----------------|--------|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------------------------|----------------|---------------|----------------|----------------|-----------------|------|------|-------|-------------|------|
| L16            | US AGM L16 | 260       | 287       | 326       | 335        | 359        | 411        | 422        | 430        | 6 DUAL                      | 390            | 255            | 358            | 915            | 11.61" (295) | 7.09" (180) | 16.85" (428) | 121.2(55) |

CHARGING INSTRUCTIONS:

Recomended 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\(^\circ\)
Compensation: -0.015 V/C\(^\circ\)

Cyclic Application
- 98 Amps Max.
- 38-45 Amps

Float Application
- 98 Amps Max.
- 38-45 Amps
- 6.6-6.8 volts
- -0.008 V/F\(^\circ\)
- -0.015 V/C\(^\circ\)

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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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

CHARGING INSTRUCTIONS:

Recommended Charge Current
- With Temperature Compensation: 40 Amps Max.
- Without Temperature Compensation: 15-19 Amps

Charge Voltage (8 Volts): 9.6-10 volts
Charge Voltage Temp. Compensation: -0.011 V/F°

Cyclic Application
- Standard Terminal Type: DUAL
- AMP HOURS: 170
- MINUTES @ 75 AMPS: 108
- MINUTES @ 25 AMPS: 150

Float Application
- AMP HOURS: 170
- MINUTES @ 75 AMPS: 108
- MINUTES @ 25 AMPS: 375

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

CHARGING INSTRUCTIONS:

Recomended Charge Current  Cyclic Application  Float Application

- With Temperature Compensation  9 Amps Max.  9 Amps Max.
- Without Temperature Compensation  3-5 Amps  3-5 Amps
Charge Voltage (12 Volts)  14.4- 15 volts  13.2-13.6 volts
Charge Voltage Temp.  -0.017 V/F°  -0.017 V/F°
Compensation  -0.030 V/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.

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 AGM U1 DATA SHEET
Sealed Low Maintenance 12-Volt

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

Battery % Capacity vs Temp

US AGM U1 Discharge Time vs Current @80°F

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 27
DATA SHEET
Sealed Low Maintenance 12-Volt

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

CHARGING INSTRUCTIONS:

Recommended 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°C
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.

For more information or questions, please visit www.usbattery.com
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 31
DATA SHEET
Sealed Low Maintenance 12-Volt

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

<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>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>
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<tr>
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<td>US AGM 31</td>
<td>66</td>
<td>74</td>
<td>85</td>
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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°
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.

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

22
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**

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<th>40-Hr Rate</th>
<th>72-Hr Rate</th>
<th>100-Hr Rate</th>
<th>Voltage Standard Terminal Type</th>
<th>AMP Hours @ 25 Amps</th>
<th>MINUTES @ 75 Amps</th>
<th>MINUTES @ 56 Amps</th>
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<td>102</td>
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<td>129</td>
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<td>159</td>
<td>163</td>
<td>167</td>
<td>T11</td>
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<td>310</td>
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<td>7.09”</td>
<td>10.8”</td>
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</table>

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

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**CHARGING INSTRUCTIONS:**

**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**

- With Temperature Compensation
  - 37 Amps Max.
  - 13-17 Amps
  - 14.4-15 volts
  - -0.017 V/F°
  - -0.030 V/C°

- Without Temperature Compensation
  - 37 Amps Max.
  - 13-17 Amps
  - 13.2-13.6 volts
  - -0.017 V/F°
  - -0.030 V/C°

**Float Application**

- With Temperature Compensation
  - 37 Amps Max.
  - 13-17 Amps
  - 14.4-15 volts
  - -0.017 V/F°
  - -0.030 V/C°

- Without Temperature Compensation
  - 37 Amps Max.
  - 13-17 Amps
  - 13.2-13.6 volts
  - -0.017 V/F°
  - -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.
EXPECTED LIFE CYCLES VS. DOD (XC, XC2 & AGM)

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 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
DATA SHEET
Sealed Low Maintenance 12-Volt

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

CHARGING INSTRUCTIONS:

Recommended Charge Current

- With Temperature Compensation
  - 59 Amps Max.
- Without Temperature Compensation
  - 19-25 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.

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 MINUTES MINUTES @ @ 75 AMPS 56 AMPS 25 AMPS Length Width Height wet Weight Lbs (kg)

Recommended Charge Current

Cyclic Application

Float Application

- 59 Amps Max.
- 19-25 Amps

14.4-15 volts

-0.017 V/F°

-0.030 V/C°

-0.017 V/F°

-0.030 V/C°

14.49” (368)
US AGM 185
DATA SHEET
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.

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