AGM12V200AH  12V 200Ah(20hr)

The AIMS Power AGM maintenance free batteries are lead-lead dioxide technology. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape, avoiding excessive pressure build-up. The battery is completely sealed, maintenance-free, and leak proof. Usable in any orientation.

### Battery Construction

<table>
<thead>
<tr>
<th>Component</th>
<th>Positive plate</th>
<th>Negative plate</th>
<th>Container</th>
<th>Cover</th>
<th>Safety valve</th>
<th>Terminal</th>
<th>Separator</th>
<th>Electrolyte</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw material</td>
<td>Lead dioxide</td>
<td>Lead</td>
<td>ABS</td>
<td>ABS</td>
<td>Rubber</td>
<td>Copper</td>
<td>Fiberglass</td>
<td>Sulfuric acid</td>
</tr>
</tbody>
</table>

### General Features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.
- No electrolyte maintenance.
- No water filling.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- Recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

### Performance Characteristics

- Nominal Voltage: 12V
- Number of Cells: 6
- Design Life: 10 years
- Nominal Capacity: 77°F (25°C)
  - 20 hour rate (10.0A, 10.8V): 200Ah
  - 10 hour rate (18.7A, 10.8V): 187Ah
  - 5 hour rate (35.8A, 10.5V): 179Ah
  - 1 hour rate (126A, 9.6V): 126Ah
- Internal Resistance: ≤ 4.0mOhms
- Self-Discharge: 3% of capacity loss per month at 20°C (average)

### Operating Temperature Range

- Discharge: -20~60°C
- Charge: -10~60°C
- Storage: -20~60°C
- Max. Discharge Current: 1000A (5s)
- Short Circuit Current: 3300A

### Charge Methods: Constant Voltage Charge 77°F (25°C)

- Cycle use: 2.40~2.45VPC
- Maximum charging current: 60A
- Temperature compensation: -30mV/°C
- Standby use: 2.20~2.30VPC
- Temperature compensation: -20mV/°C

### Dimensions and Weight

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Length (mm / inch)</th>
<th>Width (mm / inch)</th>
<th>Height (mm / inch)</th>
<th>Total Height (mm / inch)</th>
<th>Approx. Weight (Kg / lb)</th>
</tr>
</thead>
</table>

* Weight deviation: ± 3%

### Discharge Constant Current (Amperes at 77°F 25°C)

<table>
<thead>
<tr>
<th>End Point Voltage/Cell</th>
<th>15min</th>
<th>30min</th>
<th>45min</th>
<th>1h</th>
<th>3h</th>
<th>5h</th>
<th>10h</th>
<th>20h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.60V</td>
<td>350</td>
<td>215</td>
<td>156</td>
<td>126</td>
<td>57.0</td>
<td>38.0</td>
<td>19.1</td>
<td>10.6</td>
</tr>
<tr>
<td>1.65V</td>
<td>440</td>
<td>270</td>
<td>210</td>
<td>122</td>
<td>55.0</td>
<td>37.0</td>
<td>19.0</td>
<td>10.6</td>
</tr>
<tr>
<td>1.70V</td>
<td>527</td>
<td>301</td>
<td>241</td>
<td>114</td>
<td>54.5</td>
<td>36.4</td>
<td>18.9</td>
<td>10.4</td>
</tr>
<tr>
<td>1.75V</td>
<td>590</td>
<td>355</td>
<td>295</td>
<td>115</td>
<td>52.9</td>
<td>35.8</td>
<td>18.8</td>
<td>10.2</td>
</tr>
<tr>
<td>1.80V</td>
<td>621</td>
<td>401</td>
<td>337</td>
<td>112</td>
<td>50.5</td>
<td>35.2</td>
<td>18.7</td>
<td>10.0</td>
</tr>
</tbody>
</table>

### Discharge Constant Power (Watts at 77°F 25°C)

<table>
<thead>
<tr>
<th>End Point Voltage/Cell</th>
<th>15min</th>
<th>30min</th>
<th>45min</th>
<th>1h</th>
<th>2h</th>
<th>3h</th>
<th>5h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.60V</td>
<td>607</td>
<td>392</td>
<td>288</td>
<td>227</td>
<td>137</td>
<td>108</td>
<td>72.6</td>
</tr>
<tr>
<td>1.65V</td>
<td>586</td>
<td>380</td>
<td>280</td>
<td>222</td>
<td>135</td>
<td>106</td>
<td>71.6</td>
</tr>
<tr>
<td>1.70V</td>
<td>569</td>
<td>373</td>
<td>274</td>
<td>218</td>
<td>132</td>
<td>104</td>
<td>70.8</td>
</tr>
<tr>
<td>1.75V</td>
<td>561</td>
<td>363</td>
<td>269</td>
<td>214</td>
<td>128</td>
<td>100</td>
<td>69.9</td>
</tr>
<tr>
<td>1.80V</td>
<td>538</td>
<td>355</td>
<td>265</td>
<td>212</td>
<td>125</td>
<td>97.0</td>
<td>69.0</td>
</tr>
</tbody>
</table>

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values. All data may be changed without notice.
Discharge characteristic (25°C)

Relationship between charging voltage and temperature

Self-discharge characteristic

Life characteristics of standby use

Cycle service life in relation to depth of discharge

Temperature effects on float life

Temperature effects on capacity