

HZB12-200 Valve Regulated Lead Acid battery.  
12 year design life for stand by power applications.  
12 Volts 200 Ah

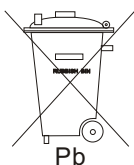
### Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Fully tank formed plates
- Analytical Grade electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5 psi
- Multi-position usage
- ABS Case and cover - V0 on request
- Low self discharge
- FAA and IATA approved as non-hazardous
- Built to comply with IEC 896-2, DIN 43534, BS 6290 Pt4, Eurobat.



### Specifications

|                       |  |
|-----------------------|--|
| Nominal Voltage       | 12 Volts   |
| Nominal Capacity      | 200Ah (C20 @ 20 °C)  |
| Design Life           | 12 Years   |
| Operating Temperature | -20 °C to 50 °C  |
| Grid alloy            | Calcium / Tin lead alloy   |
| Plates                | Flat Pasted  |
| Separator             | Absorbant Glass Mat  |
| Active material       | Very high purity lead  |
| Case and cover        | ABS (VO on request)  |
| Charge Voltage        | Float 2.25 - 2.30 VPC @25 °C<br>Cycling 2.35 @25 °C<br>Max. 2.4 VPC Max ripple 0.05C (A) |
| Electrolyte           | Sulphuric acid Analytical grade purity   |
| Venting Valve         | EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)    |
| Terminal              | Insert 12mm Dia M5 thread. Epoxy sealed by extended mechanical paths                     |
| Torque setting        | The recommended torque value for all types is 5-7 Nm                                     |
| Cables                | Connectors, cables, terminal covers on request.  |



Haze Battery Company keenly encourages environmental awareness; PLEASE follow guidelines for the recycling /disposal of lead.

Website: [www.hazebattery.com](http://www.hazebattery.com)  
E mail : [sales@hazebattery.com](mailto:sales@hazebattery.com)

Sealed Lead Acid 12 Volt Bloc AGM Range  
PRODUCT SHEET HZB12-200

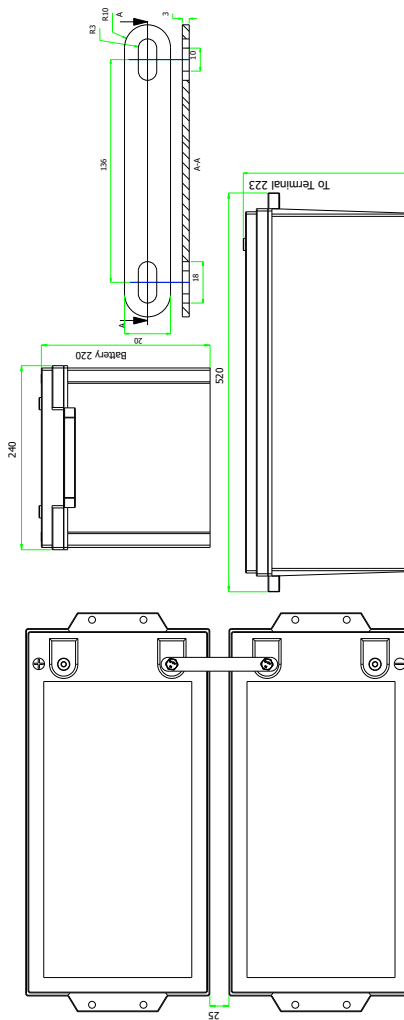
**12V  
AGM**

## Specifications

|                  |                                  |        |              |
|------------------|----------------------------------|--------|--------------|
| Nominal Voltage  |                                  | 12V    |              |
| Nominal Capacity |                                  | 200 Ah |              |
| Dimensions       | Total Height<br>(Inc. terminals) | 220 mm | 8.66 inches  |
|                  | Length                           | 520 mm | 20.47 inches |
|                  | Width                            | 240 mm | 9.45 inches  |
|                  | Weight                           | 66 Kg  | 145.86 lbs   |

## Characteristics

|  |                                 |                              |
|--|---------------------------------|------------------------------|
| Capacity<br>20 °C (68 °F)<br>To 1.7 volts                  | 20 hour rate                    | 199.2 Ah                     |
|  | 10 hour rate                    | 177.8 Ah                     |
|  | 5 hour rate                     | 160.6 Ah                     |
|  | 1 hour rate                     | 139.5 Ah                     |
|  | 15 min rate                     | 78.7 Ah                      |
|  | Internal Resistance             | <2                           |
| Capacity correction for<br>Temperature Variations<br>(C20) | 40 °C (104 °F)                  | 102%                         |
|  | 20 °C (68 °F)                   | 100%                         |
|  | 0 °C (32 °F)                    | 85%                          |
|  | -15 °C (5 °F)                   | 65%                          |
| Self-Discharge<br>20 °C (68 °F)                            | Capacity after 1 months storage | 98%                          |
|  | Capacity after 3 months storage | 94%                          |
|  | Capacity after 6 months storage | 86%                          |
| Short Circuit Current<br>20 °C (68 °F)                     | 5400                            |                              |
| Terminal   | Standard                        | 14mm Insert M6 thread        |
|  | Optional                        | Cu/Lead Flag - J Type - Auto |
| Charging<br>(Constant Voltage)                             | Cyclic                          | 2.35 - 2.40 VPC (20-25 °C)   |
|  | Float                           | 2.27 - 2.30 VPC (15-25 °C)   |



## Constant Power Discharge - Watts per Cell @20 °C

| End V per Cell | 5M  | 10M | 15M | 20M | 25M | 30M | 35M | 40M | 45M | 60M | 90M | 2 hr | 3 hr | 4 hr |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| 1.85           | 606 | 530 | 461 | 409 | 369 | 343 | 318 | 296 | 275 | 229 | 165 | 130  | 91.9 | 72.0 |
| 1.80           | 749 | 616 | 511 | 458 | 407 | 374 | 346 | 324 | 302 | 255 | 180 | 139  | 96.7 | 75.4 |
| 1.75           | 805 | 667 | 561 | 494 | 440 | 396 | 364 | 336 | 314 | 262 | 181 | 140  | 97.0 | 75.6 |
| 1.70           | 826 | 683 | 572 | 510 | 456 | 408 | 369 | 340 | 316 | 264 | 183 | 141  | 98.2 | 75.9 |
| 1.65           | 848 | 700 | 596 | 525 | 464 | 410 | 372 | 342 | 322 | 268 | 187 | 143  | 98.9 | -    |
| 1.60           | 893 | 719 | 603 | 534 | 472 | 416 | 377 | 348 | 327 | 272 | 191 | 146  | 99.4 | -    |

## Constant Amps Discharge - Amps @20 °C

| End V per Cell | 5M  | 10M | 15M | 20M | 25M | 30M | 35M | 40M | 45M | 60M | 90M  | 2 hr | 3 hr | 4 hr | 5 hr | 8 hr | 10 hr | 12 hr | 20 hr |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|-------|-------|-------|
| 1.85           | 325 | 284 | 246 | 217 | 196 | 181 | 168 | 156 | 144 | 119 | 85.6 | 67.0 | 47.1 | 36.7 | 30.0 | 20.0 | 16.6  | 14.2  | 9.3   |
| 1.80           | 408 | 335 | 277 | 246 | 218 | 200 | 184 | 172 | 159 | 134 | 93.9 | 72.0 | 49.8 | 38.7 | 31.2 | 20.7 | 17.2  | 14.7  | 9.6   |
| 1.75           | 444 | 366 | 306 | 268 | 237 | 213 | 194 | 179 | 167 | 138 | 94.7 | 72.8 | 50.2 | 38.9 | 31.6 | 20.8 | 17.3  | 14.8  | 9.7   |
| 1.70           | 460 | 378 | 315 | 279 | 248 | 221 | 198 | 182 | 168 | 140 | 96.3 | 73.7 | 50.9 | 39.2 | 32.1 | 21.3 | 17.8  | 15.2  | 10.0  |
| 1.65           | 474 | 389 | 329 | 288 | 253 | 222 | 201 | 183 | 172 | 142 | 98.4 | 74.9 | 51.3 | -    | -    | -    | -     | -     | -     |
| 1.60           | 501 | 401 | 333 | 293 | 258 | 226 | 204 | 187 | 175 | 144 | 100  | 76.3 | 51.7 | -    | -    | -    | -     | -     | -     |

## Ampere Hour @20 °C

| End V per Cell | 2 hr | 3 hr | 4 hr | 5 hr | 8 hr | 10 hr | 12 hr | 20 hr |
|----------------|------|------|------|------|------|-------|-------|-------|
| 1.85           | 134  | 141  | 147  | 150  | 160  | 166   | 170   | 186   |
| 1.80           | 144  | 149  | 155  | 156  | 165  | 172   | 177   | 193   |
| 1.75           | 146  | 151  | 156  | 158  | 167  | 173   | 177   | 193   |
| 1.70           | 147  | 153  | 157  | 161  | 170  | 178   | 183   | 199   |
| 1.65           | 150  | 154  | -    | -    | -    | -     | -     | -     |
| 1.60           | 153  | 155  | -    | -    | -    | -     | -     | -     |



UL Recognised  
Component  
MH28512

