

HZB12-55FA Valve Regulated Lead Acid battery.  
12 year design life for stand by power applications.  
12 Volts 55 Ah

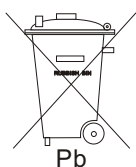
**Features** - Designed to meet the future needs of the Tele-communications industry for - mobile, wired, access, transmission, switching, integrated power applications etc. Resulting in the following benefits to the customer:

- Compactness
- ETSI / 19" / 23" Integration
- Modularity
- Rackable Standard component
- Long life
- Use under extreme conditions
- High power volume ratio
- Maintenance free utilising VRLA Gel technology
- Low Installation costs
- Front Connections and terminal access
- Long Design Life - 12 years
- Rope handles on 70Ah upwards
- Central gassing system and hinged front covers on all models
- Integral flame arrestor
- Low Internal resistance
- Recyclable lead and plastics
- Designed to meet BELLCORE, BS6290 Pt4, IEC896-2 recommendations
- Excellent Cycling ability
- Low self discharge rates



## Specifications

|                       |  |
|-----------------------|--|
| Nominal Voltage       | 12 Volts   |
| Design Life           | 12 Years   |
| Operating Temperature | -20 °C to 50 °C  |
| Grid alloy            | Calcium / Tin lead alloy   |
| Plates                | Flat Pasted  |
| Separator             | AGM - Absorbant Glass Mat  |
| Active material       | Very high purity lead  |
| Case and cover        | ABS (VO on request)  |
| Charge Voltage        | Float 2.27 - 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.<br>Resealing at 1 psi (7 KPa) |
| Terminal              | Epoxy sealed by extended mechanical paths  |
| Torque setting        | The recommended torque value is 5-7 Nm   |
| Connectors            | Supplied as standard   |



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 HZB12-55FA

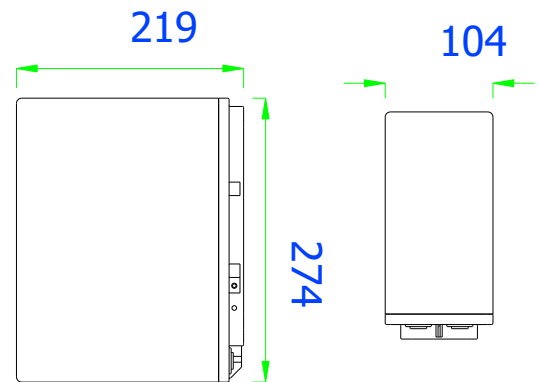
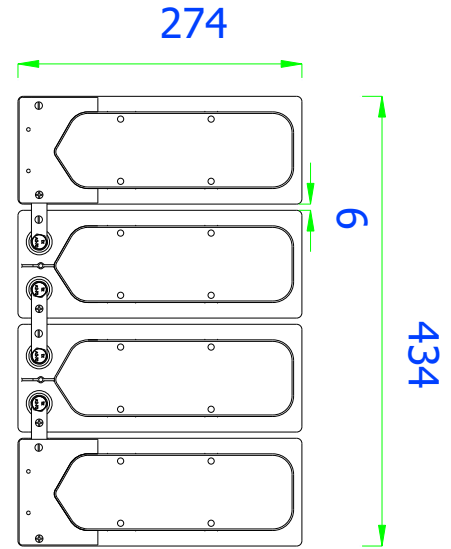
**12V  
AGM**

## Specifications

|                  |                                  |        |              |
|------------------|----------------------------------|--------|--------------|
| Nominal Voltage  |                                  | 12V    |              |
| Nominal Capacity |                                  | 50 Ah  | C10          |
| Dimensions       | Total Height<br>(Inc. terminals) | 225 mm | 8.86 inches  |
|                  | Length                           | 280 mm | 11.02 inches |
|                  | Width                            | 105 mm | 4.13 inches  |
|                  | Weight                           | 34 Kg  | 75.14 lbs    |

## Characteristics

|  |                                 |                            |
|--|---------------------------------|----------------------------|
| Capacity<br>20 °C (68 °F)<br>To 1.7 volts                  | 20 hour rate                    | 63.6 Ah                    |
|  | 10 hour rate                    | 57.8 Ah                    |
|  | 5 hour rate                     | 53.7 Ah                    |
|  | 1 hour rate                     | 44.5 Ah                    |
|  | 15 min rate                     | 29.4 Ah                    |
|  | Internal Resistance             | 4.5 mOhms                  |
| 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)                     |                                 |                            |
| Terminal   | Standard                        | 16mm Insert M6 thread      |
|  | Optional                        |                            |
| Charging<br>(Constant Voltage)                             | Cyclic                          | 2.40 VPC (15-25 °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           | 251 | 202 | 169 | 144 | 128 | 116 | 104 | 94.1 | 86.7 | 68.1 | 47.2 | 36.9 | 26.2 | 20.6 |
| 1.80           | 290 | 240 | 202 | 173 | 155 | 140 | 126 | 114  | 105  | 83.5 | 57.9 | 45.6 | 32.2 | 25.4 |
| 1.75           | 309 | 249 | 208 | 177 | 158 | 142 | 128 | 116  | 107  | 83.6 | 57.9 | 45.6 | 32.3 | 25.4 |
| 1.70           | 328 | 258 | 214 | 181 | 161 | 145 | 130 | 117  | 108  | 83.7 | 57.9 | 45.7 | 32.3 | 25.5 |
| 1.65           | 338 | 263 | 216 | 182 | 161 | 145 | 130 | 117  | 108  | 83.7 | 57.9 | 45.2 | 32.0 | -    |
| 1.60           | 358 | 273 | 221 | 185 | 163 | 146 | 130 | 118  | 108  | 83.7 | 57.9 | 45.2 | 32.0 | -    |

## 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           | 135 | 108 | 90.3 | 76.7 | 68.1 | 61.2 | 54.8 | 49.5 | 45.4 | 35.6 | 24.6 | 19.0 | 13.4 | 10.5 | 8.71 | 5.77 | 4.70  | 4.03  | 2.65  |
| 1.80           | 158 | 130 | 109  | 93.2 | 82.9 | 74.8 | 67.0 | 60.6 | 55.7 | 44.0 | 30.4 | 23.5 | 16.5 | 12.9 | 10.7 | 6.98 | 5.63  | 4.78  | 3.00  |
| 1.75           | 170 | 137 | 114  | 96.1 | 85.2 | 76.4 | 68.3 | 61.7 | 56.6 | 44.2 | 30.5 | 23.5 | 16.5 | 13.0 | 10.7 | 7.04 | 5.70  | 4.86  | 3.09  |
| 1.70           | 183 | 143 | 118  | 99.1 | 87.4 | 78.1 | 69.6 | 62.7 | 57.4 | 44.5 | 30.6 | 23.6 | 16.6 | 13.0 | 10.7 | 7.09 | 5.78  | 4.94  | 3.18  |
| 1.65           | 189 | 146 | 119  | 99.9 | 87.7 | 78.4 | 69.9 | 62.9 | 57.6 | 44.5 | 30.7 | 23.6 | 16.6 | -    | -    | -    | -     | -     | -     |
| 1.60           | 201 | 152 | 122  | 102  | 89.0 | 79.1 | 70.2 | 63.1 | 57.8 | 44.6 | 30.7 | 23.6 | 16.6 | -    | -    | -    | -     | -     | -     |

## 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           | 38.1 | 40.2 | 42.1 | 43.5 | 46.2 | 47.0  | 48.3  | 53.0  |
| 1.80           | 47.0 | 49.5 | 51.7 | 53.3 | 55.8 | 56.3  | 57.4  | 60.1  |
| 1.75           | 47.1 | 49.6 | 51.8 | 53.5 | 56.3 | 57.0  | 58.3  | 61.8  |
| 1.70           | 47.2 | 49.7 | 51.9 | 53.7 | 56.7 | 57.8  | 59.3  | 63.6  |
| 1.65           | 47.2 | 49.8 | -    | -    | -    | -     | -     | -     |
| 1.60           | 47.3 | 49.9 | -    | -    | -    | -     | -     | -     |



UL Recognised  
Component  
MH28512

