

## HZB Series 6 & 12 Volt, Sealed Lead Acid Batteries

- High Quality With 12 Year Design Life
- Completely Maintenance Free
- Increased Durability & Deep Cycle Ability For Heavy Demand Applications.
- Fully Tank Formed Plates
- Spill Proof / Leak Proof
- Valve Regulated
- Multi Position Usage
- ABS Case & Cover



### Specification

|                                |                                                                                     |
|--------------------------------|-------------------------------------------------------------------------------------|
| Nominal Voltage.....           | 6V & 12V                                                                            |
| Design Life.....               | 12 Years                                                                            |
| Technology.....                | AGM                                                                                 |
| Grid Alloy.....                | Calcium / Tin Lead Alloy                                                            |
| Plates.....                    | Flat Pasted                                                                         |
| Separator.....                 | Absorbed Glass Mat.                                                                 |
| Charge Voltage.....            | Float : 2.27 to 2.30 VPC<br>Cycling : 2.35 VPC (20°C)<br>Max : 2.4 VPC              |
| Max Charge Current Ripple..... | 0.05C (A)                                                                           |
| Electrolyte.....               | Sulphuric Acid ( Low Impurity )                                                     |
| Venting Valve.....             | EPDM Rubber, 1.5 – 2 PSI (10÷15 kPa) releases pressure<br>resealing at 1 PSI (7kPa) |
| Terminal.....                  | Epoxy sealed with extended mechanical paths                                         |
| Operating Temperature .....    | -10 to +45 °C                                                                       |
| Connections.....               | M5, M6 or M8 threaded insert                                                        |
| Torque Setting.....            | 5-7 Nm                                                                              |

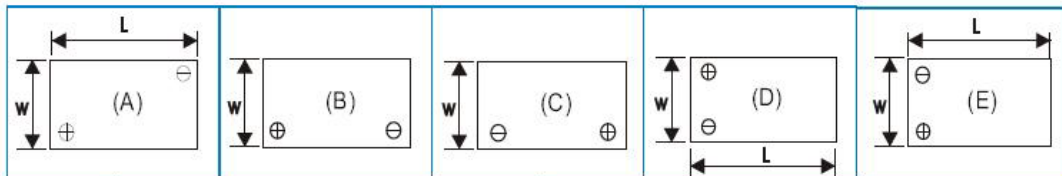
### Models and Ratings

| Model             | Output Voltage | Capacity ( Ah ) | Terminal Type | Size mm (L,W,H) |
|-------------------|----------------|-----------------|---------------|-----------------|
| <b>HZB 06-110</b> | 6 V            | 110 Ah          | A-M6          | 193 x 168 x 205 |
| <b>HZB 06-160</b> | 6 V            | 160 Ah          | A-M6          | 298 x 171 x 226 |
| <b>HZB 06-200</b> | 6 V            | 200 Ah          | A-M8          | 318 x 170 x 225 |
| <b>HZB 12-18</b>  | 12 V           | 18 Ah           | C-M5          | 181 x 76 x 167  |
| <b>HZB 12-26</b>  | 12 V           | 26 Ah           | C-M5          | 166 x 176 x 126 |
| <b>HZB 12-28</b>  | 12 V           | 28 Ah           | C-M5          | 166 x 125 x 175 |
| <b>HZB 12-33</b>  | 12 V           | 33 Ah           | B-M6          | 195 x 130 x 160 |
| <b>HZB 12-44</b>  | 12 V           | 44 Ah           | C-M6          | 197 x 165 x 170 |
| <b>HZB 12-55</b>  | 12 V           | 55 Ah           | B-M6          | 228 x 137 x 207 |

Please See Next Page for higher capacity 12 Volt Batteries and connection positions,  
See HZS or HZC ranges for lower capacity batteries below 18Ah

| Model             | Output Voltage | Capacity ( Ah) | Terminal Type | Size mm (L,W,H) |
|-------------------|----------------|----------------|---------------|-----------------|
| <b>HZB 12-70J</b> | 12 V           | 70 Ah          | C-M6          | 350 x 167 x 179 |
| <b>HZB 12-70</b>  | 12 V           | 70 Ah          | B-M6          | 259 x 168 x 208 |
| <b>HZB 12-80</b>  | 12 V           | 80 Ah          | B-M6          | 259 x 168 x 208 |
| <b>HZB 12-100</b> | 12 V           | 100 Ah         | B-M6          | 305 x 168 x 208 |
| <b>HZB 12-110</b> | 12 V           | 110 Ah         | B-M6          | 332 x 174 x 213 |
| <b>HZB 12-120</b> | 12 V           | 120 Ah         | B-M6          | 408 x 176 x 227 |
| <b>HZB 12-135</b> | 12 V           | 135 Ah         | C-M6          | 340 x 173 x 280 |
| <b>HZB 12-150</b> | 12 V           | 150 Ah         | B-M6          | 482 x 170 x 242 |
| <b>HZB 12-160</b> | 12 V           | 160 Ah         | E-M6          | 530 x 209 x 214 |
| <b>HZB 12-200</b> | 12 V           | 200 Ah         | E-M8          | 520 x 240 x 220 |
| <b>HZB 12-230</b> | 12 V           | 230 Ah         | E-M8          | 521 x 269 x 203 |

Connection Positions (see terminal type codes in tables above).



## Charging Characteristics.

| Operating Temperature °C | Recommended Float Charge VPC |
|--------------------------|------------------------------|
| 0~9                      | 2.33~2.35                    |
| 10~14                    | 2.30~2.33                    |
| 15~19                    | 2.27~2.30                    |
| 20~24                    | 2.27~2.30                    |
| 25~29                    | 2.25~2.27                    |
| 30~34                    | 2.23~2.25                    |
| 35~40                    | 2.21~2.23                    |

## Floating :

The optimum float voltage for a battery is temperature dependant. At 15~24°C the recommended value is 2.27~2.30 VPC. It is recommended that battery installation sites are temperature controlled, however float voltage can be increased or decreased to compensate for temperature variations as shown in the table on the left (-3mV per degree C)

The most suitable charging method for battery life and performance is the constant voltage method with a limited initial current, usually to a maximum of C20 Ah rating / 4

## Battery Capacity Rating Temperature Correction Factor.

| Temperature Discharge Time | 0°C  | 5°C  | 10°C | 15°C | 20°C | 25°C  | 30°C  | 35°C  | 40°C |
|----------------------------|------|------|------|------|------|-------|-------|-------|------|
| 5~60 Min                   | 0.8  | 0.86 | 0.91 | 0.96 | 1    | 1.037 | 1.063 | 1.085 | 1.1  |
| 1~100 hr                   | 0.86 | 0.9  | 0.93 | 0.97 | 1    | 1.028 | 1.05  | 1.063 | 1.07 |

Note for table above, Multiply nominal Ah Capacity rating by factor in above table depending on discharge time and temperature, ie : 26Ah battery used at 10°C & discharged over 4 hours = 24.18Ah effective capacity.

Specifications may change without notice. E&OE. ALL PSU Terms & Conditions apply.

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