

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

**ALL PSU LTD**  
Electronic Power Solutions

- 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 Cycling : 2.35 VPC (20°C) 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 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

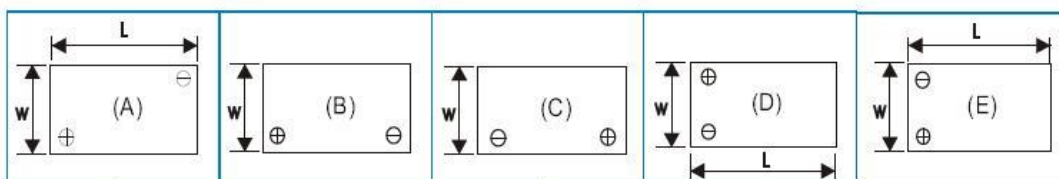
Model	Output Voltage	Capacity ( Ah )	Terminal Type	Size mm (L,W,H)
<b>HZB 06-110</b>	6 V	110 Ah	A-M6	193 x 168 x 205
<b>HZB 06-160</b>	6 V	160 Ah	A-M6	298 x 171 x 226
<b>HZB 06-200</b>	6 V	200 Ah	A-M8	318 x 170 x 225
<b>HZB 12-18</b>	12 V	18 Ah	C-M5	181 x 76 x 167
<b>HZB 12-26</b>	12 V	26 Ah	C-M5	166 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

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Model	Output Voltage	Capacity (Ah)	Terminal Type	Size mm (L,W,H)
<b>HZB 12-70J</b>	12 V	70 Ah	C-M6	259 x 168 x 208
<b>HZB 12-70</b>	12 V	70 Ah	B-M6	350 x 167 x 179
<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
1~100 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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