

HZB...EV Series 12 Volt, Sealed Lead Acid Batteries



electronic powersolutions

- 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
- Enhanced For Cyclic Applications



Specification

Nominal Voltage.....	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 (20°C) 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 by extended mechanical paths
Operating Temperature	-10 to +45 °C
Connections.....	M5, M6 or M8 threaded inserts
Torque Setting.....	5-7 Nm

Models and Ratings :

Model	Output Voltage	Capacity (Ah)	Terminal Type	Size mm (L,W,H)
HZB-EV12-18	12 V	18 Ah	C-M5	181x76x157
HZB-EV12-18EX	12 V	18 Ah	C-M5	181x77x170
HZB-EV12-26EX	12 V	26 Ah	C-M5	168x178x124
HZB-EV12-33	12 V	33 Ah	B-M6	196x131x160
HZB-EV12-33EX	12 V	33 Ah	B-M6	195x130x163
HZB-EV12-44	12 V	44 Ah	C-M6	198x167x170

See next page for higher capacities.

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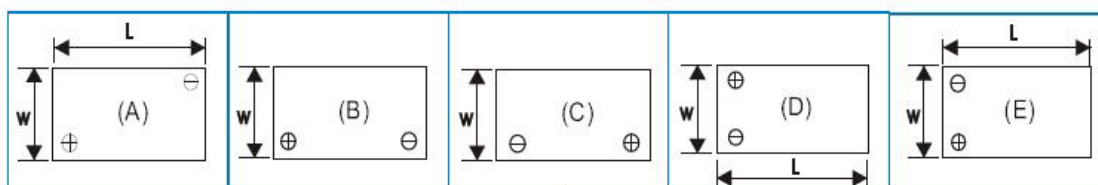
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Model	Output Voltage	Capacity (Ah)	Terminal Type	Size mm (L,W,H)
HZB-EV12-44EX	12 V	44 Ah	C-M6	195x165x172
HZB-EV12-55EX	12 V	55 Ah	C-M6	229x138x214
HZB-EV12-60	12 V	60 Ah	B-M6	260x138x213
HZB-EV12-65	12 V	65 Ah	C-M6	272x165x188
HZB-EV12-70	12 V	70 Ah	B-M6	260x168x211
HZB-EV12-70J	12 V	70 Ah	C-M6	349x168x175
HZB-EV12-80	12 V	80 Ah	B-M8	260x168x211
HZB-EV12-100	12 V	100 Ah	B-M8	306x168x211
HZB-EV12-110	12 V	110 Ah	B-M8	329x173x209

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 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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