

## HZY Series 6 & 12 Volts, Gel 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
- Designed for Cyclic Or Stand-By Applications



### Specification

Nominal Voltage.....	6V & 12V
Design Life.....	12 Years
Technology.....	Gel
Grid Alloy.....	Calcium / Tin Lead Alloy
Plates.....	Flat Pasted
Separator.....	Microporous Duroplastic
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 of analytical grade purity
Venting Valve.....	EPDM Rubber, 1.5 – 2 PSI (10~15 kPa) release pressure resealing at 1 PSI (7kPa)
Terminal.....	Epoxy sealed with extended mechanical paths
Operating Temperature .....	-20 to +50 °C
Connections.....	Faston Tabs (T1 or T2) or Threaded Inserts (M5, 6 or 8)
Torque Setting.....	5-7 Nm for Threaded Inserts

### Models and Ratings

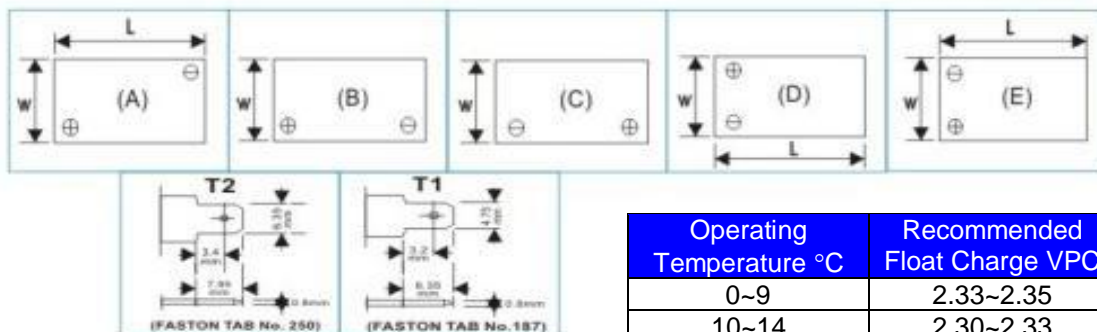
Model	Output Voltage	Capacity ( Ah)	Terminal Type	Size mm (L,W,H)
<a href="#">HZY 06-7.5 EV</a>	6 V	7.7 Ah	B-T1	150 x 34 x 96
<a href="#">HZY 06-12 EV</a>	6 V	13.1 Ah	B-T2	151 x 50 x 98
<a href="#">HZY 06-110 EV</a>	6 V	109 Ah	A-M6	193 x 168 x 205
<a href="#">HZY 06-160 EV</a>	6 V	167 Ah	A-M6	298 x 171 x 226
<a href="#">HZY 06-180 EV</a>	6 V	180 Ah	A-M8	260 x 181 x 246
<a href="#">HZY 06-200 EV</a>	6 V	193 Ah	A-M8	318 x 170 x 225
<a href="#">HZY 06-225 EV</a>	6 V	225 Ah	A2-M8	244 x 188 x 275
<a href="#">HZY 12-7.5 EV</a>	12 V	7.5 Ah	D-T1	151 x 65 x 99
<a href="#">HZY 12-12 EV</a>	12 V	12 Ah	D-T2	150 x 97 x 100
<a href="#">HZY 12-18 EV</a>	12 V	18 Ah	C-M5	181 x 76 x 167
<a href="#">HZY 12-26 EV</a>	12 V	26 Ah	C-M5	166 x 176 x 126

**Please see next page for larger 12 Volt Batteries and terminal details**

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Model	Output Voltage	Capacity (Ah)	Terminal Type	Size, mm (L,W,H)
<a href="#">HZY 12-33 EV</a>	12 V	33 Ah	B-M6	195 x 130 x 160
<a href="#">HZY 12-44 EV</a>	12 V	44 Ah	C-M6	197 x 165 x 170
<a href="#">HZY 12-55 EV</a>	12 V	55 Ah	B-M6	228 x 137 x 207
<a href="#">HZY 12-65 EV</a>	12 V	65 Ah	C-M6	272 x 165 x 188
<a href="#">HZY 12-70J EV</a>	12 V	70 Ah	C-M6	350 x 167 x 179
<a href="#">HZY 12-70 EV</a>	12 V	70 Ah	B-M6	259 x 168 x 208
<a href="#">HZY 12-80 EV</a>	12 V	80 Ah	B-M8	259 x 168 x 208
<a href="#">HZY 12-100 EV</a>	12 V	100 Ah	B-J post	305 x 168 x 208
<a href="#">HZY 12-110 EV</a>	12 V	110 Ah	B-J post	332 x 174 x 213
<a href="#">HZY 12-120 EV</a>	12 V	120 Ah	B-M8	408 x 176 x 227
<a href="#">HZY 12-135 EV</a>	12 V	135 Ah	C-M8	340 x 173 x 280
<a href="#">HZY 12-150 EV</a>	12 V	150 Ah	B-M8	482 x 170 x 242
<a href="#">HZY 12-160 EV</a>	12 V	160 Ah	E-M8	530 x 209 x 214
<a href="#">HZY 12-200 EV</a>	12 V	200 Ah	E-M8	520 x 240 x 220
<a href="#">HZY 12-230 EV</a>	12 V	230 Ah	E-M8	521 x 269 x 203

## Connection Details



## Charging Characteristics vs Temperature

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 above (-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

## 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

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

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