

- High Quality With 5 Year Design Life
- Completely Maintenance Free
- Increased Durability and Deep Cycle Ability For Heavy Demand Applications
- Fully Tank Formed Plates
- Spill Proof / Leak Proof
- Valve Regulated
- Multi Position Usage
- ABS Case and Cover



Specification

Nominal Voltage.....	4V, 6V & 12V
Design Life.....	5 Years (see HZB range for 12 year design life range)
Technology.....	AGM
Grid Alloy.....	Calcium / Tin Lead Alloy
Plates.....	Flat pasted
Separator.....	Absorbed Glass Matt
Charge Voltage.....	Float : 2.27 - 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.....	Faston types (2 sizes), Epoxy sealed
Operating Temperature	-20 to +50 °C

Models and Ratings, (4 Volt & 6 Volt Batteries).

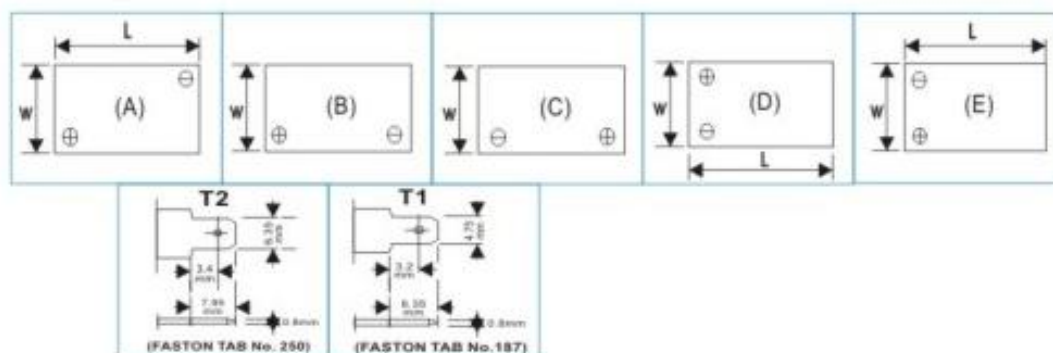
Model	Output Voltage	Capacity (Ah)	Terminal Type	Size mm (L,W,H)
HZS 04-4.5	4 V	4.5 Ah	C-T1	47 x 47 x 101
HZS 04-9	4 V	9 Ah	B-T1	102 x 44 x 95
HZS 06-1.3	6 V	1.3 Ah	B-T1	98 x 25 x 52
HZS 06-3.2	6 V	3.2 Ah	B-T1	134 x 34 x 60
HZS 06-4.5	6 V	4.5 Ah	A-T1	70 x 48 x 101
HZS 06.7.2	6 V	7.2 Ah	B-T1	150 x 34 x 94
HZS 06-12	6 V	12 Ah	B-T1	151 x 50 x 93.5

Please see next page for 12 Volt Batteries and terminal details.
For higher capacity batteries >18Ah please see HZB series.

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Model	Output Voltage	Capacity (Ah)	Terminal Type	Size mm (L,W,H)
HZS 12-0.8	12 V	0.8 Ah	Cable-T1	96 x 25 x 62
HZS 12-1.3	12 V	1.3 Ah	E-T1	96.5 x 45 x 53
HZS 12-2.2	12 V	2.2 Ah	B-T1	177.5 x 34 x 60
HZS 12-2.9	12 V	2.9 Ah	B-T1	78 x 55 x 98
HZS 12-3.3	12 V	3.3 Ah	C-T1	133.5 x 67 x 61
HZS 12-5	12 V	5 Ah	D-T1	90 x 70 x 101
HZS 12-5L	12 V	5 Ah	D-T2	90 x 70 x 101
HZS 12-6HR	12 V	6 Ah	D-T1	151 x 51 x 93
HZS 12-7	12 V	7 Ah	D-T1	151 x 65 x 94
HZS 12-7.5	12 V	7.5 Ah	D-T1	151 x 65 x 94
HZS 12-7.5HR	12 V	8.2 Ah	D-T2	151 x 65 x 94
HZS 12-10	12 V	10 Ah	D-T2	151 x 64 x 110
HZS 12-12	12 V	12 Ah	D-T2	150 x 97 x 94
HZS 12-14	12 V	14 Ah	D-T2	150 x 97 x 94

Connection position details. (See terminal type codes in table 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	2.21~2.25

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	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C
Discharge Time									
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 : 12Ah battery used at 10°C & discharged over 4 hours = 11.16Ah capacity.

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

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