



Sealed Lead Acid Batteries AGM Range

HZB 6 & 12V

Design life 12 years



Applications

- Float service
- Uninterruptible Power Supplies
- Telecommunications
- Switch Gear
- Utility
- Cellular Radio Stations
- Marine Equipment / Navigation Aids
- Renewable Energy Systems (Solar, Wind)
- Cathodic Protection
- Medical Equipment

Specifications

- Nominal voltage 6V & 12V
- Design life 12 years
- Technology AGM
- Operating temperature $-10^{\circ}\text{C} \div 45^{\circ}\text{C}$
- Grid alloy Calcium / Tin lead alloy
- Plates Flat pasted
- Separator Absorbent glass mat
- Active material High purity lead
- Case and cover ABS (V0 on request)
- Charge voltage
 - float: $2.27 \div 2.30\text{VPC}$ (20°C)
 - cycling: 2.35VPC (20°C)
 - max 2.40VPC
- Max charge current ripple 0.05 C [A]
- Electrolyte Low impurity sulphuric acid
- Venting valve EPDM rubber, release pressure 1.5-2.0PSI ($10 \div 15\text{ kPa}$), resealing at 1.0PSI (7 kPa)
- Terminals Various types, epoxy sealed by extended mechanical paths
- Torque setting $5 \div 7\text{ Nm}$

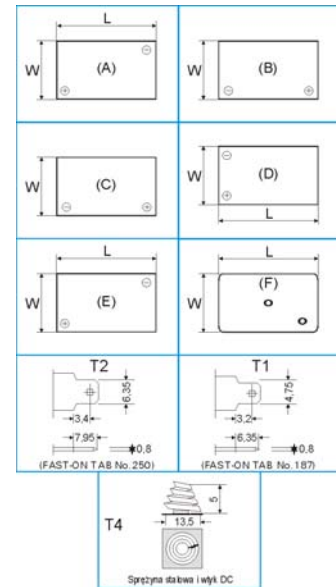
Innovative Features

- Completely maintenance free (sealed, no watering)
- Increased durability and deep cycle ability for heavy demand applications
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Valve regulated (max internal pressure 2.5PSI / 17.5kPa)
- Multi-position usage
- ABS case & cover – V0 on request
- Low self discharge
- Built to comply with IEC 896-2, DIN 43534, BS 6290p.4 and EUROBAT regulations, UL 1989 approved
- FAA i IATA approved as non-hazardous

HZB 6 & 12V

Battery model	Voltage [V]	Capacity C20 [Ah]	Length [mm]	Width [mm]	Height [mm]	Weight [kg]	Terminal type
HZB 12-15T	12	17,6	200	76	123	5,14	C-M5
HZB 12-18	12	17,8	181	76	167	6,25	C-M5
HZB 12-26	12	26,7	166	176	126	9,2	C-M5
HZB 12-28	12	28,8	166	125	175	9,4	C-M5
HZB 12-33	12	32,8	195	130	160	10,9	B-M6
HZB 12-44	12	40,6	197	165	170	13,6	C-M6
HZB 12-55	12	53,0	228	137	207	17,5	B-M6
HZB 12-70J	12	64,8	350	167	179	22,1	C-M6
HZB 12-70	12	66,1	259	168	208	21,5	B-M6
HZB 12-80	12	76,1	259	168	208	23,7	B-M6
HZB 12-90	12	86,3	305	168	208	29,0	B-M6
HZB 12-100	12	95,7	305	168	208	30,0	B-M6
HZB 12-110	12	107	332	174	213	32,2	B-M6
HZB 12-120	12	116	408	176	227	35,0	B-M6
HZB 12-135	12	128	340	173	280	39,6	C-M6
HZB 12-150	12	145	482	170	242	44,2	B-M6
HZB 12-160	12	160	530	209	214	52,2	E-M8
HZB 12-200	12	193	520	240	220	66,0	E-M8
HZB 12-230	12	223	521	269	203	70,0	E-M8
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HZB 6-110	6	109	193	168	205	16,0	A-M6
HZB 6-160	6	167	298	171	226	26,0	A-M6
HZB 6-200	6	193	318	170	225	31,0	A-M8

Terminal details



Approvals



Charging characteristics

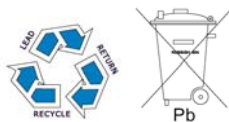
Floating - The optimum float voltage for a battery is temperature dependant. At 15÷24°C the recommended value is 2,27-2,30VPC. It is recommended that battery installation sites are temperature controlled, however float voltage can be increased or decreased to compensate for temperature variations as shown in the table below (-3mV per degree C).

Operating temperature [°C]	Recommended float voltage [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

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

Capacity 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 mins	0,8	0,86	0,91	0,96	1	1,037	1,063	1,085	1,1
1 ÷ 100 hr(s)	0,86	0,9	0,93	0,97	1	1,028	1,05	1,063	1,07



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