

HZB12-110 Valve Regulated Lead Acid battery.
 12 year design life for stand by power applications.
 12 Volts 110 Ah

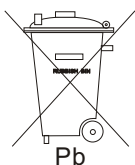
Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Analytical Grade electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5 psi
- Multi-position usage
- ABS Case and cover - VO on request
- Low self discharge
- FAA and IATA approved as non-hazardous
- Built to comply with IEC 896-2, DIN 43534, BS 6290 Pt4, Eurobat.



Specifications

Nominal Voltage	12 Volts
Nominal Capacity	110Ah (C20 @ 20 °C)
Design Life	12 Years
Operating Temperature	-20 °C to 50 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	Absorbant Glass Mat
Active material	Very high purity lead
Case and cover	ABS (VO on request)
Charge Voltage	Float 2.25 - 2.30 VPC @25 °C Cycling 2.35 @25 °C Max. 2.4 VPC Max ripple 0.05C (A)
Electrolyte	Sulphuric acid Analytical grade purity
Venting Valve	EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)
Terminal	Insert 16mm Dia M6 thread. Epoxy sealed by extended mechanical paths
Torque setting	The recommended torque value for all types is 5-7 Nm
Cables	Connectors, cables, terminal covers on request.



Haze Battery Company keenly encourages environmental awareness; PLEASE follow guidelines for the recycling /disposal of lead.

Website: www.hazebattery.com
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Sealed Lead Acid 12 Volt Bloc AGM Range
PRODUCT SHEET HZB12-110

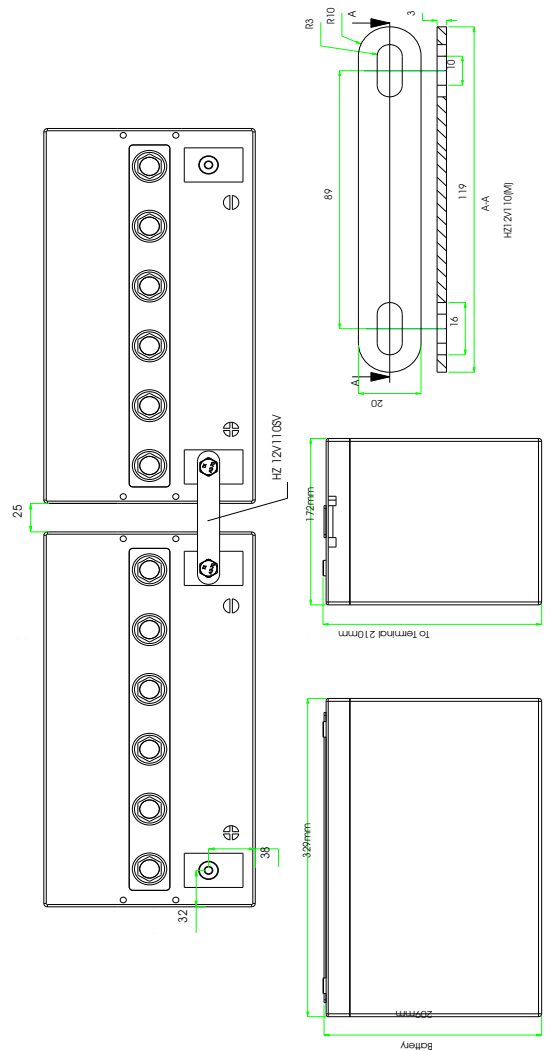
12V
AGM

Specifications

Nominal Voltage		12V	
Nominal Capacity		110 Ah	
Dimensions	Total Height (Inc. terminals)	209 mm	8.23 inches
	Length	329 mm	12.95 inches
	Width	173 mm	6.81 inches
	Weight	32.5 Kg	71.83 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.7 volts	20 hour rate	111.7 Ah
	10 hour rate	102.0 Ah
	5 hour rate	98.7 Ah
	1 hour rate	69.8 Ah
	15 min rate	49.3 Ah
	Internal Resistance	4 mOhms
Capacity correction for Temperature Variations (C20)	40 °C (104 °F)	102%
	20 °C (68 °F)	100%
	0 °C (32 °F)	85%
	-15 °C (5 °F)	65%
Self-Discharge 20 °C (68 °F)	Capacity after 1 months storage	98%
	Capacity after 3 months storage	94%
	Capacity after 6 months storage	86%
Short Circuit Current 20 °C (68 °F)	3000	
Terminal	Standard	16mm Insert M6 thread
	Optional	Cu/Lead Flag - J Type - Auto
Charging (Constant Voltage)	Cyclic	2.35 - 2.40 VPC (20-25 °C)
	Float	2.27 - 2.30 VPC (15-25 °C)



Constant Power Discharge - Watts per Cell @ 20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr
1.85	461	370	311	268	234	208	187	169	155	124	89.8	70.8	49.7	38.5	31.7	27.1	23.8	21.3	17.7	15.2	10.0
1.80	542	415	337	286	246	218	195	175	160	127	91.5	71.8	50.3	39.0	32.1	27.6	24.2	21.7	18.0	15.5	10.3
1.75	582	436	356	298	256	225	199	180	164	130	93.1	72.9	50.9	39.5	32.7	28.1	24.7	22.1	18.3	15.8	10.6
1.70	603	452	364	302	260	228	202	182	166	131	94.7	73.8	51.6	40.1	33.0	28.5	25.0	22.4	18.6	16.1	10.8
1.67	619	459	367	305	262	230	204	184	167	132	95.1	74.2	51.8	40.2	-	-	-	-	-	-	-
1.65	634	466	370	308	264	231	205	185	169	133	95.6	74.6	52.0	40.4	-	-	-	-	-	-	-
1.60	661	477	377	311	267	233	207	187	170	134	96.2	75.0	52.4	40.5	-	-	-	-	-	-	-

Constant Amps Discharge - Amps @ 20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr
1.85	248	201	168	142	123	110	99.8	89.9	82.3	65.5	47.1	36.7	25.6	19.8	16.4	14.1	12.5	11.2	9.31	8.01	5.21
1.80	290	224	183	151	131	115	104	93.6	85.6	67.9	48.5	37.9	26.2	20.3	16.8	14.5	12.8	11.4	9.53	8.19	5.35
1.75	321	238	192	159	136	119	107	96.5	87.6	69.0	49.2	38.4	26.7	20.7	17.2	14.8	13.1	11.7	9.72	8.37	5.46
1.70	336	246	197	161	139	121	108	97.7	88.7	69.8	49.9	38.9	27.1	21.1	17.5	15.1	13.2	11.9	9.87	8.50	5.59
1.67	345	250	199	163	139	122	109	98.1	89.1	70.1	50.1	39.1	27.2	21.2	-	-	-	-	-	-	-
1.65	355	253	202	164	140	123	110	98.6	89.6	70.4	50.3	39.3	27.4	21.3	-	-	-	-	-	-	-
1.60	371	260	205	167	142	124	111	99.5	90.4	71.0	50.7	39.6	27.6	21.4	-	-	-	-	-	-	-

Ampere Hour @ 20-25 °C

End V per Cell	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr
1.85	70.6	73.4	76.8	79.0	82.0	84.7	87.3	89.4	93.1	96.1
1.80	75.7	78.6	81.0	84.1	86.9	89.3	91.5	95.3	98.3	107
1.75	76.7	80.0	82.7	86.1	88.9	91.4	93.4	97.2	100.4	109
1.70	77.7	81.2	84.2	87.5	90.3	92.6	94.8	98.7	102.0	112
1.67	78.1	81.7	84.6	-	-	-	-	-	-	-
1.65	78.5	82.2	85.0	-	-	-	-	-	-	-
1.60	79.1	82.9	85.7	-	-	-	-	-	-	-

UL Recognised Component
MH28512



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