

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

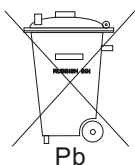
### Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Fully tank formed plates
- Analytical Grade electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5 psi
- Multi-position usage
- ABS Case and cover - V0 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 12mm Dia M5 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](http://www.hazebattery.com)  
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Sealed Lead Acid 12 Volt Bloc AGM Range  
PRODUCT SHEET HZB12-110

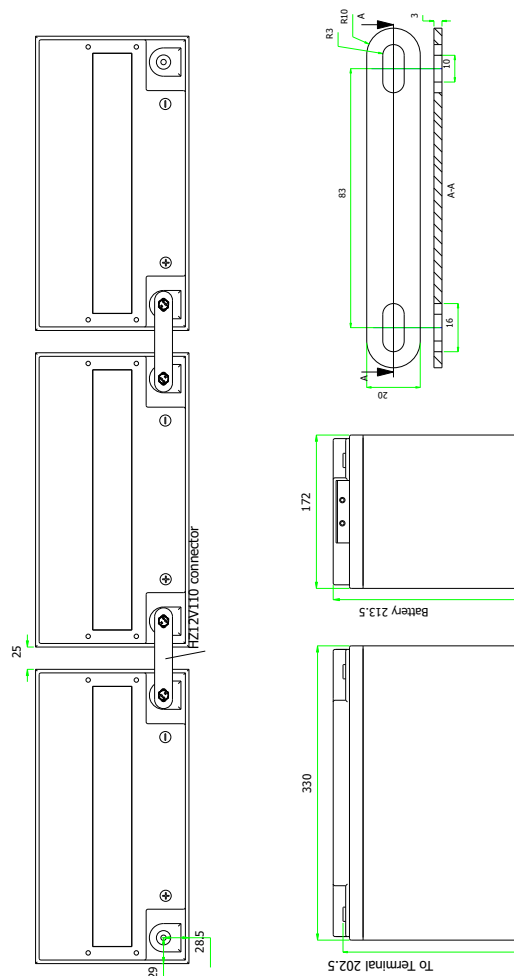
**12V  
AGM**

## Specifications

Nominal Voltage		12V	
Nominal Capacity		110 Ah	
Dimensions	Total Height (Inc. terminals)	213 mm	8.39 inches
	Length	332 mm	13.07 inches
	Width	174 mm	6.85 inches
	Weight	32.2 Kg	71.16 lbs

## Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate	109.8 Ah
	10 hour rate	99.0 Ah
	5 hour rate	96.4 Ah
	1 hour rate	69.8 Ah
	15 min rate	51.5 Ah
Internal Resistance		4 mOhms
Impedance		S
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	14mm 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 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	461	376	311	268	234	212	189	171	155	124	91.6	71.8	50.0	38.5
1.80	570	446	352	292	256	225	198	180	165	130	93.1	73.0	50.7	39.1
1.75	582	471	371	308	264	229	202	183	166	131	93.5	73.4	50.7	39.2
1.70	603	474	375	313	267	231	205	184	168	132	95.0	74.8	52.1	40.4
1.65	634	482	380	315	270	234	207	187	170	133	96.0	75.1	52.3	-
1.60	661	497	391	320	272	237	209	189	171	134	97.3	75.5	52.5	-

## Constant Amps Discharge - Amps @20 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	248	201	166	142	124	112	99.4	89.9	81.3	64.6	47.5	37.1	25.6	19.6	16.0	11.0	9.00	7.70	5.12
1.80	311	242	191	158	137	120	105	95.4	86.9	68.2	48.5	37.9	26.1	20.1	16.6	11.3	9.31	7.96	5.31
1.75	321	259	202	167	142	123	108	97.4	88.3	69.0	48.9	38.2	26.2	20.2	16.7	11.4	9.36	8.01	5.33
1.70	336	262	206	171	145	125	110	98.7	89.3	69.8	49.9	39.0	27.0	20.8	17.1	11.7	9.64	8.25	5.49
1.65	355	268	209	173	147	127	111	100	90.8	70.4	50.5	39.3	27.1	-	-	-	-	-	-
1.60	371	277	216	176	148	129	113	102	91.4	71.0	51.2	39.5	27.3	-	-	-	-	-	-

## Ampere Hour @20 °C

End V per Cell	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	74.1	76.8	78.4	80.1	88.0	90.0	92.4	102
1.80	75.7	78.3	80.2	82.8	90.3	93.1	95.5	106
1.75	76.4	78.7	80.8	83.3	91.1	93.6	96.1	107
1.70	78.0	81.1	83.4	85.7	93.7	96.4	99.0	110
1.65	78.5	81.4	-	-	-	-	-	-
1.60	79.0	81.9	-	-	-	-	-	-



UL Recognised  
Component  
MH28512

