

HZB12-100 Valve Regulated Lead Acid battery.  
12 year design life for stand by power applications.  
12 Volts 100 Ah

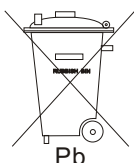
### Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Special Formation Process
- 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	100Ah (C20 @ 20 °C)
Design Life	12 Years
Operating Temperature	-30 °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](http://www.hazebattery.com)  
E mail : [sales@hazebattery.com](mailto:sales@hazebattery.com)

Sealed Lead Acid 12 Volt Bloc AGM Range  
PRODUCT SHEET HZB12-100

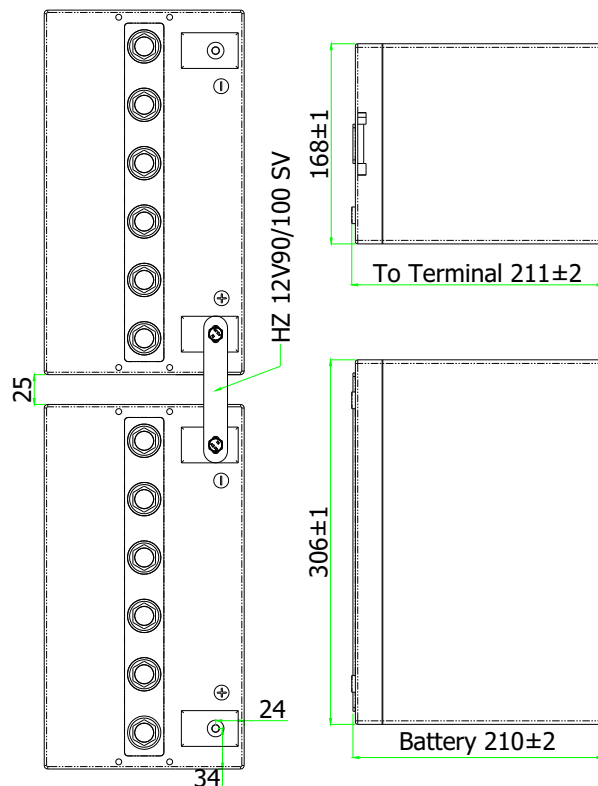
**12V  
AGM**

## Specifications

Nominal Voltage		12V	
Nominal Capacity		100 Ah	
Dimensions	Total Height	211 mm	8.31 inches
	(Inc. terminals)	n/a mm	n/a inches
	Length	306 mm	12.05 inches
	Width	168 mm	6.61 inches
Weight		29.6 Kg	65.42 lbs

## Characteristics

Capacity 20-25 °C (68-77 °F) To 1.7 volts	20 hour rate	108.0 Ah
	10 hour rate	96.5 Ah
	5 hour rate	82.9 Ah
	1 hour rate	63.8 Ah
	15 min rate	44.7 Ah
	Internal Resistance	4 mOhms
Capacity correction for Temperature Variations (C20)	Impedance	1300 S
	40 °C (104 °F)	102%
	20 °C (68 °F)	100%
	0 °C (32 °F)	85%
Self-Discharge 20 °C (68 °F)	-15 °C (5 °F)	65%
	Capacity after 1 months storage	98%
	Capacity after 3 months storage	94%
Short Circuit Current 20 °C (68 °F)	Capacity after 6 months storage	86%
	2900	
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	422	339	287	245	213	190	170	155	143	116	83.9	65.6	45.8	35.6	29.3	25.1	22.1	19.8	16.4	14.1	9.17
1.80	488	370	306	258	223	198	177	160	147	119	85.5	66.8	46.6	36.1	29.8	25.6	22.5	20.1	16.7	14.3	9.34
1.75	533	389	317	266	230	202	181	163	151	121	86.5	67.4	47.1	36.5	30.1	25.8	22.7	20.3	16.9	14.5	9.48
1.70	559	400	324	271	233	205	183	165	152	122	87.4	68.0	47.5	36.8	30.4	26.0	22.9	20.5	17.0	14.6	9.65
1.67	573	405	327	273	235	206	184	166	153	123	87.8	68.3	47.6	36.9	-	-	-	-	-	-	-
1.65	587	410	330	275	237	208	185	167	154	123	88.3	68.7	47.8	37.1	-	-	-	-	-	-	-
1.60	617	420	335	279	240	210	187	168	155	124	89.0	69.0	48.1	37.3	-	-	-	-	-	-	-

## 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	227	182	153	130	112	99.4	89.5	81.6	75.1	59.7	42.5	33.3	23.7	18.8	15.8	13.8	12.2	10.9	9.08	7.78	5.01
1.80	276	205	167	138	119	105	93.8	85.2	77.7	61.7	43.7	34.2	24.2	19.1	16.1	14.0	12.4	11.2	9.32	7.98	5.16
1.75	294	217	173	142	122	107	95.7	87.0	79.5	62.9	44.5	34.8	24.7	19.4	16.3	14.2	12.6	11.4	9.49	8.16	5.30
1.70	311	226	179	146	125	109	97.4	88.5	80.7	63.8	45.4	35.4	25.0	19.7	16.6	14.5	12.8	11.5	9.65	8.31	5.40
1.67	320	229	180	147	126	110	98.0	89.0	81.1	64.2	45.6	35.5	25.1	19.8	-	-	-	-	-	-	-
1.65	328	232	182	148	126	110	98.6	89.4	81.6	64.6	45.7	35.6	25.2	19.9	-	-	-	-	-	-	-
1.60	347	239	186	151	128	112	99.8	90.5	82.7	65.1	46.1	35.9	25.4	20.1	-	-	-	-	-	-	-

## 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	63.8	66.5	71.2	75.1	78.8	82.5	85.2	87.4	90.8	93.4
1.80	68.3	72.7	76.6	80.4	84.2	86.9	89.5	93.2	95.7	103
1.75	69.5	74.0	77.7	81.5	85.4	88.2	90.9	94.9	97.9	106
1.70	70.7	75.1	78.9	82.9	86.7	89.5	92.3	96.5	99.7	108
1.67	71.0	75.3	79.3	-	-	-	-	-	-	-
1.65	71.2	75.6	79.8	-	-	-	-	-	-	-
1.60	71.7	76.2	80.3	-	-	-	-	-	-	-



UL Recognised  
Component  
MH28512

