

HZB12-80 Valve Regulated Lead Acid battery.  
12 year design life for stand by power applications.  
12 Volts 80 Ah

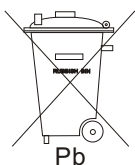
### Innovative Features

- 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	80Ah (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](http://www.hazebattery.com)  
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**Sealed Lead Acid 12 Volt Bloc AGM Range**  
**PRODUCT SHEET HZB12-80**

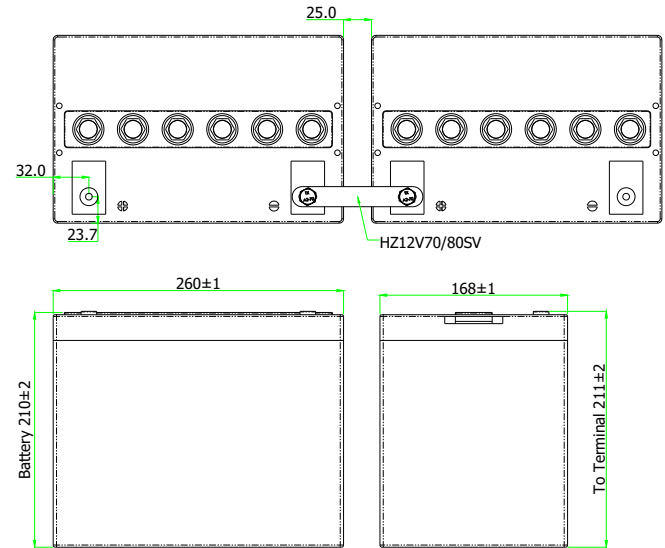
12V  
AGM

## Specifications

Nominal Voltage		12V	
Nominal Capacity		80 Ah	
Dimensions	Total Height (Inc. terminals)	211 mm	8.31 inches
	Length	260 mm	10.24 inches
	Width	168 mm	6.61 inches
	Weight	25.4 Kg	56.13 lbs

## Characteristics

Capacity 20-25 °C (68-77 °F) To 1.7 volts	20 hour rate	91.0 Ah
	10 hour rate	82.8 Ah
	5 hour rate	71.4 Ah
	1 hour rate	56.4 Ah
	15 min rate	36.9 Ah
Internal Resistance	Impedance	5 mOhms
		1150 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)	2400	
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	323	266	231	197	174	155	142	130	120	96.0	69.1	53.6	36.8	28.3	23.3	19.9	17.4	15.5	12.8	11.0	7.18
1.80	357	286	246	209	182	161	147	135	123	98.1	70.3	54.2	37.2	28.7	23.6	20.2	17.7	15.8	13.0	11.2	7.37
1.75	384	302	258	214	187	165	149	137	126	100	70.8	54.7	37.6	29.0	23.8	20.4	17.9	16.0	13.2	11.4	7.54
1.70	403	314	268	222	192	168	153	140	128	101	71.5	55.1	37.9	29.2	24.1	20.6	18.1	16.1	13.4	11.5	7.66
1.67	422	323	272	225	194	170	154	141	129	102	71.9	55.4	38.1	29.3	-	-	-	-	-	-	-
1.65	442	331	275	227	196	172	156	142	130	103	72.3	55.7	38.2	29.4	-	-	-	-	-	-	-
1.60	470	344	282	233	199	175	158	144	131	104	72.9	56.0	38.5	29.7	-	-	-	-	-	-	-

## 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	182	148	125	107.1	94.7	84.5	77.3	71.0	65.7	52.9	37.4	29.3	20.6	16.2	13.5	11.7	10.4	9.37	7.81	6.70	4.24
1.80	201	162	135	114	99.5	89.0	80.5	74.3	68.3	54.6	38.3	29.8	20.9	16.5	13.8	12.0	10.7	9.57	8.01	6.86	4.39
1.75	215	169	142	119	103.7	92.4	83.2	76.4	69.9	55.4	38.9	30.3	21.4	16.8	14.0	12.2	10.9	9.75	8.14	6.98	4.46
1.70	231	179	148	124	107	94.7	85.1	77.6	70.9	56.4	39.4	30.7	21.7	17.0	14.3	12.4	11.0	9.94	8.28	7.10	4.55
1.67	243	183	150	126	108	95.5	85.7	78.2	71.4	56.6	39.6	30.8	21.8	17.1	-	-	-	-	-	-	-
1.65	254	187	153	128	110	96.2	86.3	78.8	72.0	56.9	39.8	31.0	21.9	17.2	-	-	-	-	-	-	-
1.60	272	195	158	130	112	98.2	87.8	80.1	72.9	57.6	40.1	31.2	22.1	17.3	-	-	-	-	-	-	-

## 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	56.1	58.5	61.7	64.7	67.5	70.3	72.9	75.0	78.1	80.4
1.80	59.6	62.8	65.8	68.8	72.0	74.7	76.5	80.1	82.4	87.9
1.75	60.6	64.1	67.3	70.2	73.2	76.0	78.0	81.4	83.7	89.1
1.70	61.4	65.1	68.2	71.4	74.3	77.3	79.6	82.8	85.2	91.0
1.67	61.7	65.3	68.5	-	-	-	-	-	-	-
1.65	62.0	65.6	68.8	-	-	-	-	-	-	-
1.60	62.5	66.2	69.2	-	-	-	-	-	-	-

**UL Recognised Component**  
MH28512

