

HZB12-90 Valve Regulated Lead Acid battery.
12 year design life for stand by power applications.
12 Volts 90 Ah

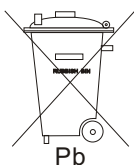
Innovative Features

- 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	90Ah (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
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Sealed Lead Acid 12 Volt Bloc AGM Range
PRODUCT SHEET HZB12-90

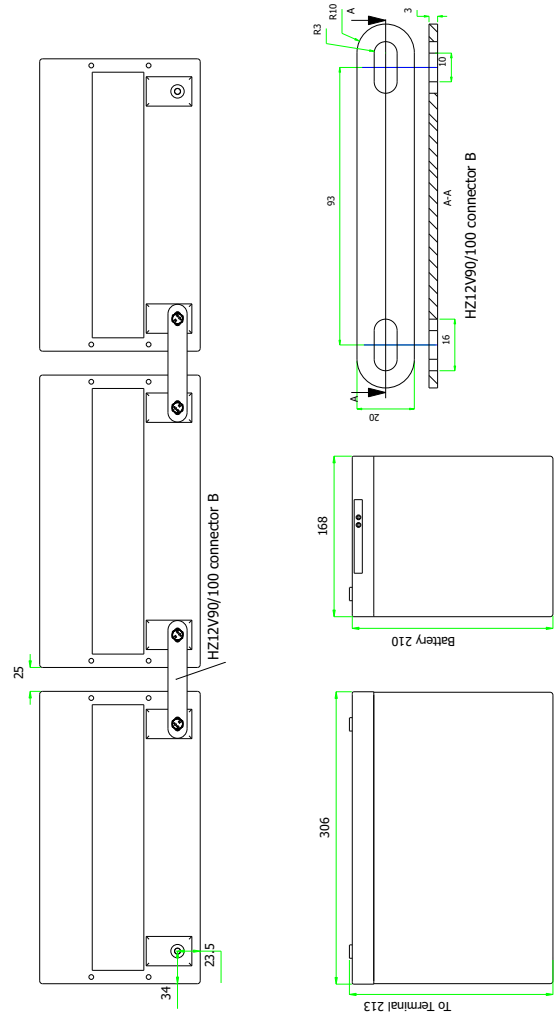
**12V
AGM**

Specifications

Nominal Voltage		12V	
Nominal Capacity		90 Ah	
Dimensions	Total Height (Inc. terminals)	208 mm	8.19 inches
	Length	305 mm	12.01 inches
	Width	168 mm	6.61 inches
	Weight	29 Kg	64.09 lbs

Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate	88.9 Ah
	10 hour rate	78.4 Ah
	5 hour rate	71.8 Ah
	1 hour rate	59.2 Ah
	15 min rate	42.9 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)	2650	
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	383	301	249	214	187	169	152	139	128	106	77.4	60.7	42.3	32.6
1.80	432	365	297	249	210	183	162	146	135	109	78.8	61.4	43.0	33.0
1.75	455	375	305	256	214	186	164	149	138	111	79.0	61.8	43.1	33.3
1.70	483	390	312	262	219	188	166	151	139	112	80.8	63.6	44.4	34.3
1.65	497	397	321	265	221	191	168	152	140	114	82.3	64.2	44.7	-
1.60	536	414	329	268	224	194	171	154	142	115	83.9	65.1	45.0	-

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	206	161	133	114	99.2	89.1	80.2	73.1	67.2	55.4	40.1	31.3	21.7	16.6	13.5	8.87	7.31	6.28	4.14
1.80	236	198	160	134	112	97.5	85.9	77.6	71.1	57.2	41.1	31.9	22.1	16.9	13.8	9.18	7.57	6.51	4.31
1.75	251	206	167	139	116	99.6	87.7	79.4	73.0	58.4	41.3	32.2	22.3	17.1	14.0	9.22	7.61	6.53	4.32
1.70	268	216	171	143	119	102	89.1	80.6	73.9	59.2	42.4	33.2	23.0	17.7	14.4	9.46	7.84	6.73	4.45
1.65	278	220	177	145	120	104	90.7	81.4	74.9	60.2	43.3	33.6	23.2	-	-	-	-	-	-
1.60	301	231	182	147	122	105	92.5	83.0	75.9	61.0	44.1	34.1	23.4	-	-	-	-	-	-

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	62.6	65.1	66.5	67.6	71.0	73.1	75.3	82.9
1.80	63.7	66.4	67.7	69.2	73.4	75.7	78.1	86.1
1.75	64.3	66.8	68.5	70.0	73.8	76.1	78.4	86.3
1.70	66.4	69.0	70.7	71.8	75.6	78.4	80.7	88.9
1.65	67.2	69.6	-	-	-	-	-	-
1.60	68.2	70.2	-	-	-	-	-	-



UL Recognised
Component
MH28512

