

HZB12-28 Valve Regulated Lead Acid battery. 12 year design life for stand by power applications.

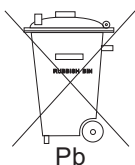
Innovative Features

- 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	32Ah (C20)
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 See Haze cyclic charging profile 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 HZB12-28

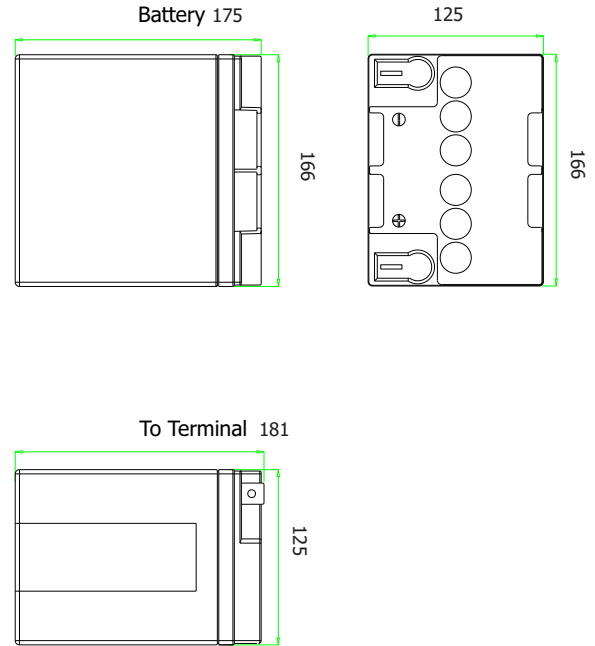
12V
AGM

Specifications

Nominal Voltage		12V	
Nominal Capacity		32 Ah	
Dimensions	Total Height	175 mm	6.89 inches
	(Inc. terminals)	n/a mm	n/a inches
	Length	166 mm	6.54 inches
	Width	125 mm	4.92 inches
	Weight	9 Kg	19.89 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.7 volts	20 hour rate	32.1 Ah
	10 hour rate	30.6 Ah
	5 hour rate	27.7 Ah
	1 hour rate	20.7 Ah
	15 min rate	14.4 Ah
	Internal Resistance	7.75 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)	910	
Terminal	Standard	12mm Insert M5 thread
	Optional	Cu Flag
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	182	124	94.7	77.9	66.2	58.2	52.0	47.3	43.8	35.3	25.3	19.7	14.1	11.2	9.36	8.05	7.08	6.34	5.24	4.45	2.71
1.80	194	133	101	83.2	70.7	62.2	55.6	50.5	46.8	37.7	27.0	21.1	15.1	12.0	10.0	8.60	7.57	6.78	5.59	4.75	2.89
1.75	206	141	108	88.5	75.3	66.2	59.1	53.8	49.8	40.1	28.7	22.4	16.0	12.8	10.6	9.15	8.05	7.21	5.95	5.05	3.08
1.70	211	144	110	90.4	76.9	67.6	60.4	54.9	50.9	41.0	29.4	22.9	16.4	13.0	10.9	9.35	8.23	7.37	6.08	5.16	3.15
1.67	213	145	111	91.2	77.6	68.2	61.0	55.4	51.4	41.4	29.6	23.1	16.5	13.1	-	-	-	-	-	-	-
1.65	214	146	111	91.6	77.9	68.5	61.2	55.6	51.6	41.5	29.8	23.2	16.6	13.2	-	-	-	-	-	-	-
1.60	216	147	112	92.5	78.7	69.1	61.8	56.2	52.1	41.9	30.0	23.4	16.8	13.3	-	-	-	-	-	-	-

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	104	64.9	49.6	40.6	34.9	30.6	27.4	24.6	22.5	17.9	12.9	10.1	7.26	5.74	4.77	4.08	3.58	3.20	2.63	2.23	1.38
1.80	111	69.4	53.0	43.4	37.3	32.7	29.3	26.3	24.0	19.1	13.8	10.8	7.75	6.13	5.09	4.36	3.83	3.42	2.81	2.38	1.48
1.75	119	73.8	56.3	46.2	39.6	34.8	31.1	28.0	25.6	20.3	14.7	11.5	8.25	6.52	5.42	4.64	4.07	3.63	2.99	2.53	1.57
1.70	121	75.4	57.6	47.2	40.5	35.6	31.8	28.6	26.1	20.7	15.0	11.7	8.43	6.67	5.54	4.74	4.16	3.71	3.06	2.59	1.61
1.67	122	76.1	58.1	47.6	40.9	35.9	32.1	28.9	26.4	20.9	15.1	11.8	8.50	6.72	-	-	-	-	-	-	-
1.65	123	76.4	58.3	47.8	41.0	36.0	32.2	29.0	26.5	21.0	15.2	11.9	8.54	6.75	-	-	-	-	-	-	-
1.60	124	77.1	58.9	48.2	41.4	36.4	32.5	29.3	26.7	21.2	15.3	12.0	8.62	6.82	-	-	-	-	-	-	-

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	20.2	21.8	23.0	23.8	24.5	25.1	25.6	26.3	26.7	27.7
1.80	21.6	23.3	24.5	25.5	26.2	26.8	27.3	28.1	28.6	29.5
1.75	23.0	24.7	26.1	27.1	27.8	28.5	29.1	29.9	30.4	31.4
1.70	23.5	25.3	26.7	27.7	28.5	29.1	29.7	30.6	31.1	32.1
1.67	23.7	25.5	26.9	-	-	-	-	-	-	-
1.65	23.8	25.6	27.0	-	-	-	-	-	-	-
1.60	24.0	25.9	27.3	-	-	-	-	-	-	-

UL Recognised Component
MH28512



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