

HZB12-44 Valve Regulated Lead Acid battery.
12 year design life for stand by power applications.
12 Volts 44 Ah

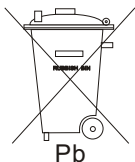
Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Analytical Grade electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5 psi
- Multi-position usage
- ABS Case and cover - VO 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	44Ah (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 HZB12-44

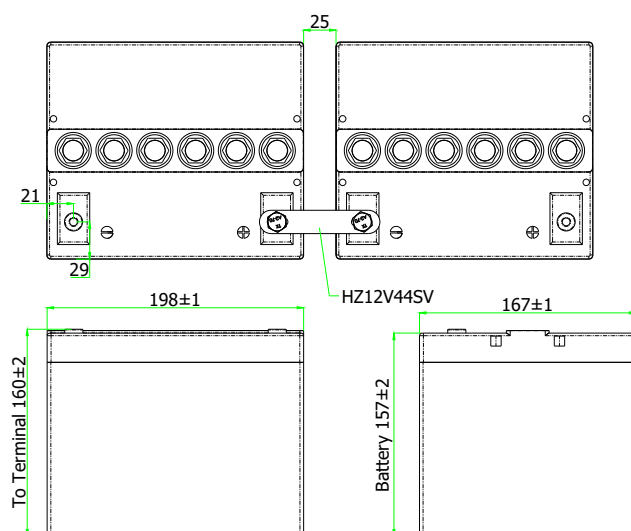
12V
AGM

Specifications

Nominal Voltage		12V	
Nominal Capacity		44 Ah	
Dimensions	Total Height	157 mm	6.18 inches
	(Inc. terminals)	n/a mm	n/a inches
	Length	198 mm	7.80 inches
	Width	167 mm	6.57 inches
Weight		13.3 Kg	29.39 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.7 volts	20 hour rate	50.0 Ah
	10 hour rate	44.1 Ah
	5 hour rate	36.5 Ah
	1 hour rate	28.4 Ah
	15 min rate	19.2 Ah
	Internal Resistance	6.2 mOhms
Impedance	670 S	
	40 °C (104 °F)	102%
	20 °C (68 °F)	100%
	0 °C (32 °F)	85%
Capacity correction for Temperature Variations (C20)	-15 °C (5 °F)	65%
	Capacity after 1 months storage	98%
	Capacity after 3 months storage	94%
	Capacity after 6 months storage	86%
Self-Discharge 20 °C (68 °F)	670	
Short Circuit Current 20 °C (68 °F)	670	
Terminal	Standard	14mm Insert M6 thread
	Optional	Cu / Lead Flag - 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	222	178	143	118	101.2	88.4	79.1	71.4	65.3	51.9	36.9	28.6	19.8	15.2	12.5	10.6	9.28	8.28	6.84	5.86	3.78
1.80	236	191	151	124	105.3	91.7	81.7	73.6	67.2	53.4	37.8	29.2	20.2	15.5	12.7	10.8	9.43	8.42	6.96	5.96	3.89
1.75	247	196	154	126	107	93.1	83.0	74.7	68.1	54.0	38.1	29.6	20.3	15.6	12.8	10.9	9.55	8.52	7.06	6.04	3.97
1.70	255	200	157	128	109	94.4	83.7	75.4	68.7	54.5	38.4	29.8	20.5	15.8	12.9	11.0	9.65	8.60	7.13	6.12	4.03
1.67	257	202	158	129	109	94.9	84.1	75.7	69.0	54.8	38.6	30.0	20.6	15.8	-	-	-	-	-	-	-
1.65	259	204	159	130	110	95.3	84.5	76.1	69.3	55.1	38.8	30.1	20.7	15.8	-	-	-	-	-	-	-
1.60	267	208	161	131	111	96.4	85.4	76.7	69.9	55.4	39.1	30.3	20.8	15.9	-	-	-	-	-	-	-

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	118	83.5	69.0	58.9	51.7	45.9	41.1	37.3	34.2	26.9	18.9	14.7	10.5	8.20	6.85	5.96	5.33	4.84	4.13	3.57	2.33
1.80	128	89.8	72.9	61.9	53.8	47.4	42.4	38.4	35.1	27.7	19.5	15.2	10.8	8.48	7.08	6.15	5.49	4.99	4.26	3.69	2.40
1.75	135	93.5	75.4	63.4	54.8	48.3	43.2	39.1	35.6	28.0	19.7	15.4	11.0	8.63	7.20	6.26	5.59	5.08	4.33	3.76	2.45
1.70	141	95.7	76.7	64.5	55.7	49.1	43.9	39.7	36.1	28.4	20.0	15.6	11.1	8.76	7.31	6.35	5.67	5.16	4.41	3.82	2.50
1.67	142	96.8	77.4	64.8	56.0	49.4	44.2	40.0	36.3	28.5	20.1	15.6	11.1	8.79	-	-	-	-	-	-	-
1.65	144	97.9	78.2	65.2	56.3	49.6	44.4	40.2	36.6	28.6	20.1	15.7	11.2	8.83	-	-	-	-	-	-	-
1.60	149	101	79.4	66.0	56.7	50.0	44.8	40.5	36.9	28.9	20.3	15.8	11.3	8.89	-	-	-	-	-	-	-

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	28.4	29.5	31.4	32.8	34.2	35.7	37.3	38.7	41.3	42.9
1.80	30.5	32.4	33.9	35.4	36.9	38.4	39.9	42.6	44.2	48.0
1.75	30.8	32.9	34.5	36.0	37.5	39.1	40.7	43.3	45.1	48.9
1.70	31.1	33.3	35.0	36.5	38.1	39.7	41.3	44.1	45.9	50.0
1.67	31.3	33.4	35.2	-	-	-	-	-	-	-
1.65	31.4	33.6	35.3	-	-	-	-	-	-	-
1.60	31.6	33.9	35.6	-	-	-	-	-	-	-



UL Recognised
Component
MH28512



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