

HZS12-12 Valve Regulated Lead Acid Battery.
5 year design life for stand by power applications only.
12 Volts 13.4 Ah (C20)

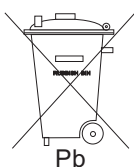
Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Case formed plates
- Battery 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	13.4 Ah (C20 @ 20 °C)
Design Life	5 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	T2 - 0.250" Fast-On Tab terminal



Haze Battery Company keenly encourages environmental awareness; PLEASE follow guidelines for the recycling /disposal of lead.

Website: www.hazebatteryusa.com
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Sealed Lead Acid 12 Volt Bloc AGM Range
PRODUCT SHEET HZS12-12

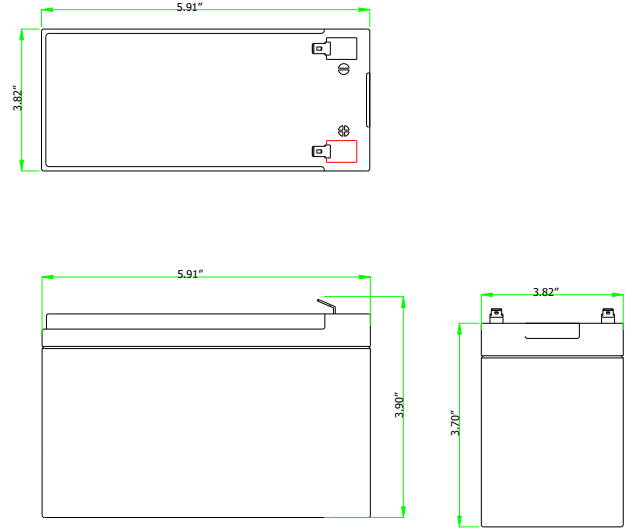
12V
AGM

Specifications

Nominal Voltage		12V	
Nominal Capacity		13.7 Ah	
Dimensions	Total Height	98 mm	3.86 inches
	(Inc. terminals)	106 mm	4.17 inches
	Length	151 mm	5.94 inches
	Width	98 mm	3.86 inches
	Weight	3.50 Kg	7.35 lbs
Box Quantity		4	

Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate	13.7 Ah
	10 hour rate	12.4 Ah
	5 hour rate	11.1 Ah
	1 hour rate	7.4 Ah
	15 min rate	5.0 Ah
	Internal Resistance	20 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)		
Terminal	Standard	Faston T2
	Optional	Faston T1
Layout Ref.		D
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

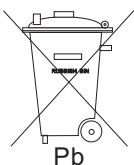
End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	62.9	44.0	35.5	29.4	25.1	22.2	19.8	18.0	16.6	13.5	9.97	8.14	6.04	4.84
1.80	67.2	47.0	37.9	31.4	26.9	23.7	21.2	19.3	17.7	14.4	10.65	8.70	6.45	5.17
1.75	71.4	50.0	40.4	33.4	28.6	25.2	22.5	20.5	18.9	15.3	11.3	9.26	6.86	5.50
1.70	73.0	51.1	41.2	34.2	29.2	25.7	23.0	20.9	19.3	15.6	11.6	9.46	7.01	5.62
1.65	73.9	51.8	41.8	34.6	29.6	26.1	23.3	21.2	19.5	15.8	11.7	9.58	7.10	5.69
1.60	74.7	52.3	42.2	35.0	29.9	26.3	23.5	21.4	19.7	16.0	11.8	9.67	7.17	5.75

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	34.8	23.0	17.2	14.0	11.9	10.4	9.35	8.46	7.79	6.38	4.79	3.92	2.90	2.31	1.91	1.29	1.07	0.92	0.59
1.80	37.2	24.5	18.4	14.9	12.7	11.1	9.99	9.04	8.32	6.82	5.12	4.18	3.10	2.46	2.04	1.38	1.14	0.98	0.63
1.75	39.6	26.1	19.6	15.9	13.5	11.8	10.6	9.62	8.85	7.25	5.45	4.45	3.30	2.62	2.17	1.46	1.22	1.04	0.67
1.70	40.5	26.7	20.0	16.2	13.8	12.1	10.9	9.83	9.05	7.41	5.57	4.55	3.37	2.68	2.22	1.50	1.24	1.07	0.69
1.65	41.0	27.0	20.3	16.5	14.0	12.3	11.0	9.95	9.16	7.50	5.64	4.61	3.42	2.71	-	-	-	-	-
1.60	41.4	27.3	20.5	16.6	14.1	12.4	11.1	10.05	9.25	7.58	5.69	4.65	3.45	2.74	-	-	-	-	-

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	7.83	8.71	9.22	9.54	10.30	10.71	11.0	11.8
1.80	8.37	9.31	9.85	10.19	11.0	11.4	11.8	12.6
1.75	8.90	9.90	10.48	10.84	11.7	12.2	12.5	13.4
1.70	9.10	10.12	10.71	11.08	12.0	12.4	12.8	13.7
1.65	9.21	10.25	10.85	-	-	-	-	-
1.60	9.30	10.35	10.95	-	-	-	-	-



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