

HZY12-110 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	116Ah (C20) 1.75Vpc
Design Life	12 Years
Operating Temperature	-20 °C to 50 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	Microporous polymer
Active material	Very high purity lead
Case and cover Charge	ABS (VO on request)
Voltage	Float 2.25 - 2.30 VPC @25 °C Cyclic - See Haze cyclic charging profile. Max ripple 0.05C (A)
Electrolyte	Gelled 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	Epoxy sealed by extended mechanical paths



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

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Sealed Lead Acid 12 Volt Bloc **GEL Range**
PRODUCT SHEET HZY12-110

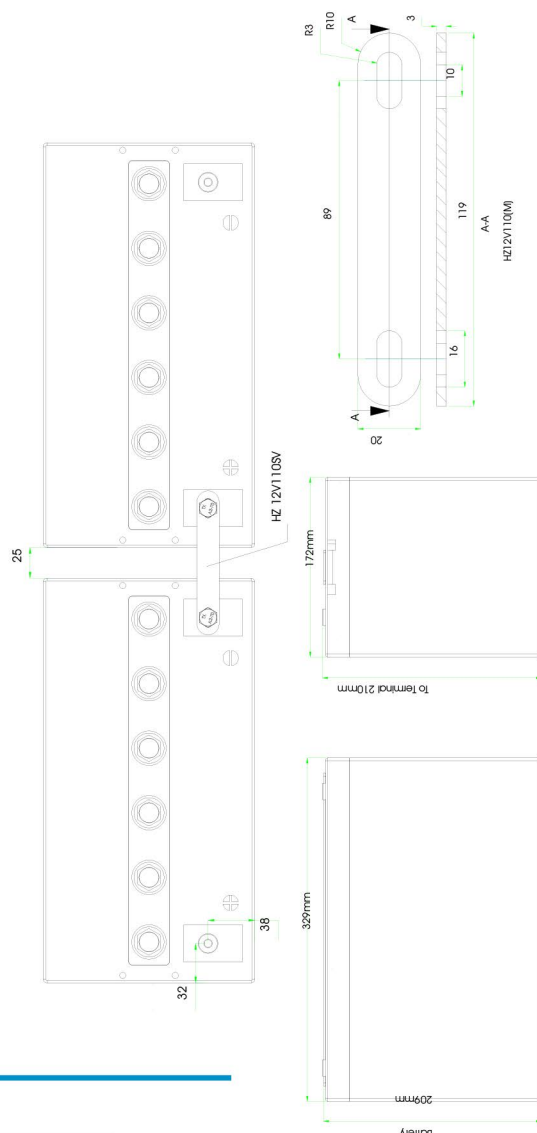
12V
Gel

Specifications

Nominal Voltage		12V	
Nominal Capacity		116 Ah	
Dimensions	Total Height (Inc. terminals)	209 mm	8.23 inches
	Length	329 mm	12.95 inches
	Width	173 mm	6.81 inches
	Weight	30.9 Kg	68.29 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.75 volts	20 hour rate	116.0 Ah
	10 hour rate	104.0 Ah
	5 hour rate	91.9 Ah
	1 hour rate	66.4 Ah
	15 min rate	41.8 Ah
	Internal Resistance	4.4 mOhms
Capacity correction for Temperature Variations (C20)	Impedance	S
	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)	3000	
Terminal	Standard	16mm Insert M6 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
1.85	412	310	256	218	191	170	153	140	129	103.7	75.9	60.2	42.4	33.1
1.80	440	331	274	232	204	182	164	149	137	110.7	81.1	64.3	45.3	35.3
1.75	468	352	291	247	217	193	174	159	146	117.8	86.3	68.4	48.2	37.6
1.70	479	360	298	253	221	197	178	162	149	120.4	88.2	69.9	49.3	38.4
1.67	483	363	300	255	223	199	180	164	151	121.5	88.9	70.5	49.7	38.8
1.65	485	365	301	256	224	200	180	165	151	121.9	89.3	70.8	49.9	38.9
1.60	489	368	304	258	226	202	182	166	153	123.1	90.1	71.5	50.4	39.3

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	241	179	147	125	109	97.0	87.3	78.9	72.3	58.5	42.5	34.0	24.4	19.3	16.2	13.9	12.2	11.0	9.11	7.86	5.10
1.80	258	191	157	134	117	104	93.3	84.2	77.2	62.4	45.4	36.3	26.1	20.6	17.3	14.9	13.1	11.7	9.73	8.39	5.45
1.75	274	204	167	142	124	110	99.2	89.6	82.1	66.4	48.3	38.6	27.8	21.9	18.4	15.8	13.9	12.4	10.4	8.93	5.80
1.70	280	208	171	145	127	113	101.4	91.6	83.9	67.9	49.4	39.5	28.4	22.4	18.8	16.2	14.2	12.7	10.6	9.12	5.93
1.67	283	210	173	147	128	114	102.3	92.4	84.7	68.5	49.8	39.8	28.6	22.6	-	-	-	-	-	-	-
1.65	284	211	173	147	128	114	102.7	92.7	85.0	68.8	50.0	40.0	28.7	22.7	-	-	-	-	-	-	-
1.60	287	213	175	149	130	115	104	93.6	85.8	69.4	50.5	40.4	29.0	22.9	-	-	-	-	-	-	-

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**UL Recognised
Component
MH28512**