HZY12-110 Valve Regulated Lead Acid battery.
12 year design life for stand by power applications.
12 Volts 106 Ah (C20)

Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Proprietary 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
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	ABS (VO on request)
Charge Voltage	Float 2.25 - 2.30 VPC @25 ˚C Cycliing 2.35 @25 ˚C
	Max. 2.4 VPC 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

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

LEAD RETURN RECYCLE

Pb

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

Website: www.hazebattery.com
E mail : sales@hazebattery.com

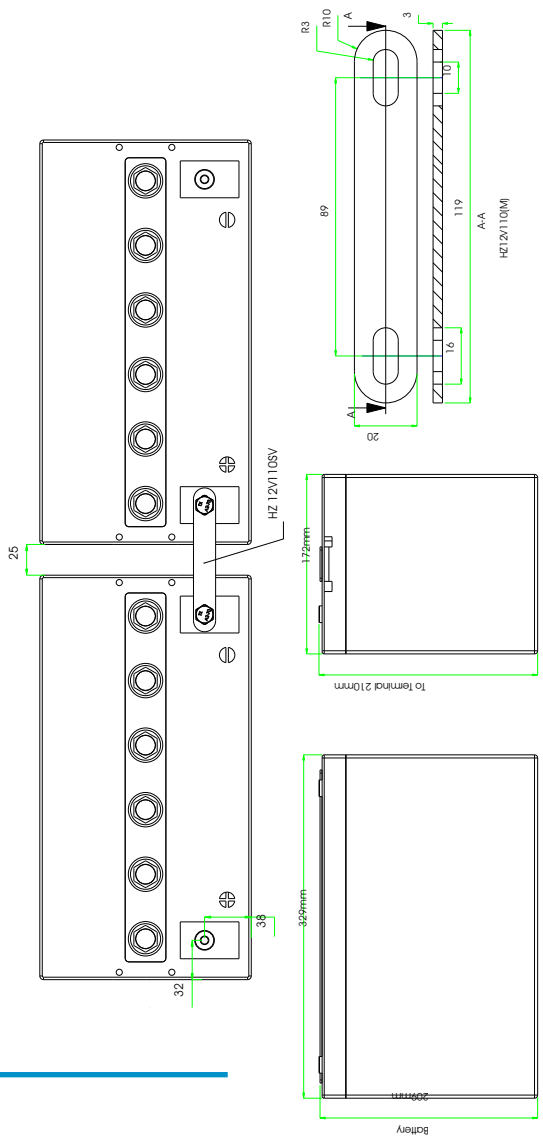
12V Gel

Specifications

Nominal Voltage		12V	
Nominal Capacity		110 Ah	
Dimensions	Total Height	209 mm	8.23 inches
	(Inc. terminals)	- mm	n/a 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 1.7 volts	20 hour rate	105.7 Ah
	10 hour rate	90.7 Ah
	5 hour rate	80.5 Ah
	1 hour rate	62.2 Ah
	15 min rate	40.8 Ah
	Internal Resistance	4 mOhms
	Impedance	S
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)	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	371	302	261	228	202	183	166	151	140	113.0	83.3	66.3	46.7	36.3
1.80	432	336	282	240	213	190	171	157	145	116.3	85.3	67.6	47.5	37.2
1.75	468	352	291	247	217	193	174	159	146	117.8	86.3	68.4	48.2	37.6
1.70	492	365	299	252	222	197	177	161	148	119.3	87.3	69.2	48.7	38.1
1.65	518	379	306	257	225	199	179	163	150	120.5	88.1	69.8	49.1	38.4
1.60	540	390	312	263	229	203	182	165	152	121.8	89.2	70.3	49.5	38.6

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	199	164	140.96	122.7	108.2	96.6	87.8	79.5	73.2	58.5	42.8	33.9	23.8	18.5	15.3	13.1	11.5	10.26	8.55	7.38	4.86
1.80	236	181	151	129.6	113.5	101.2	90.7	82.5	75.6	60.2	43.8	34.7	24.3	18.9	15.6	13.4	11.8	10.53	8.78	7.57	5.03
1.75	258	192	158	134.1	116.9	103.4	92.7	84.3	76.8	61.4	44.5	35.2	24.6	19.2	15.9	13.7	12.0	10.74	8.93	7.70	5.15
1.70	270	200	163	137.1	119.0	105.0	94.5	85.5	78.0	62.2	45.1	35.7	25.0	19.5	16.1	13.9	12.2	10.90	9.07	7.88	5.29
1.65	285	206	167	140.4	121.0	106.8	95.8	86.9	79.3	62.9	45.6	36.0	25.2	19.7	-	-	-	-	-	-	-
1.60	298	212	170	142	122.9	108.2	97.0	87.8	80.1	63.6	46.0	36.4	25.5	19.8	-	-	-	-	-	-	-

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	64.2	67.8	71.5	74.2	76.5	78.8	80.5	82.1	85.5	88.5
1.80	69.4	73.0	75.6	78.2	80.5	82.5	84.2	87.8	90.8	100.5
1.75	70.4	73.8	76.7	79.3	81.9	84.0	85.9	89.3	92.4	102.9
1.70	71.3	74.9	77.9	80.5	83.1	85.1	87.2	90.7	94.5	105.7
1.65	72.0	75.6	78.6	-	-	-	-	-	-	-
1.60	72.7	76.4	79.3	-	-	-	-	-	-	-

UL Recognised Component MH28512

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