

HZY12-100 Valve Regulated Lead Acid battery.
 12 year design life for stand by power applications.
 12 Volts 91 Ah (C20)

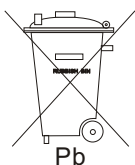
Innovative Features

- 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 Cycling 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



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 GEL Range
PRODUCT SHEET HZY12-100

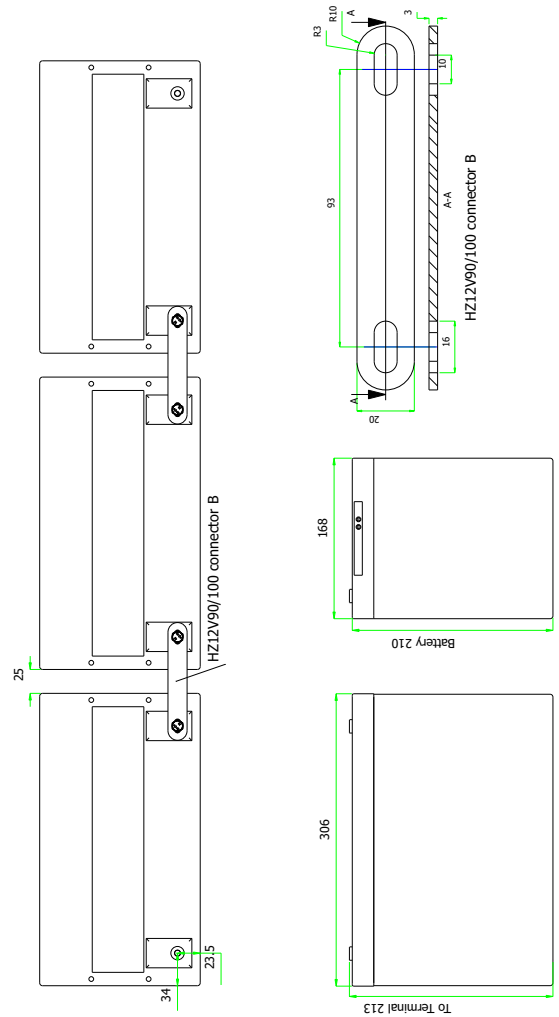
12V
Gel

Specifications

Nominal Voltage		12V	
Nominal Capacity		100 Ah	
Dimensions	Total Height (Inc. terminals)	211 mm - mm	8.31 inches n/a inches
	Length	306 mm	12.05 inches
	Width	168 mm	6.61 inches
	Weight	28.3 Kg	62.54 lbs

Characteristics

Capacity 20-25°C (68-77 °F) To 1.7 volts	20 hour rate	91.4 Ah
	10 hour rate	80.1 Ah
	5 hour rate	71.2 Ah
	1 hour rate	54.8 Ah
	15 min rate	34.8 Ah
	Internal Resistance	5 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)	2900	
Terminal	Standard	14mm Insert M6 thread
	Optional	Cu Flag
Charging (Constant Vdrtage)	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	340	271	232	203	181	163	148	137	127	104.0	76.5	60.3	42.6	33.4
1.80	396	299	250	215	189	169	154	142	131	106.9	78.3	61.9	43.6	34.1
1.75	429	310	258	220	193	172	157	144	133	108.5	79.3	62.7	44.3	34.7
1.70	449	324	266	225	197	176	159	146	135	109.9	80.2	63.3	44.6	34.9
1.65	473	335	270	229	200	178	161	148	137	110.9	80.7	63.7	44.9	35.2
1.60	497	345	276	233	204	180	164	150	139	112.0	81.5	64.3	45.4	35.5

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	175	143	121.37	105.0	92.5	82.9	75.4	69.6	64.4	52.0	37.9	29.9	21.1	16.5	13.6	11.7	10.3	9.15	7.57	6.48	4.19
1.80	213	160	131	110.7	96.5	86.0	78.2	71.7	66.0	53.2	38.7	30.5	21.5	16.7	13.8	11.9	10.4	9.31	7.74	6.65	4.35
1.75	227	169	136	114.0	99.8	88.6	79.9	73.2	67.2	54.1	39.3	31.0	21.8	17.0	14.0	12.1	10.6	9.48	7.87	6.75	4.45
1.70	240	174	139	117.3	102.0	90.0	81.3	74.3	68.3	54.8	39.8	31.4	22.1	17.3	14.2	12.2	10.8	9.64	8.01	6.90	4.57
1.65	254	178	142	119.1	103.2	91.2	82.3	75.2	69.2	55.3	40.2	31.7	22.4	17.5	-	-	-	-	-	-	-
1.60	268	183	145	121	104.6	92.4	83.1	75.9	69.9	55.9	40.5	31.9	22.6	17.6	-	-	-	-	-	-	-

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	56.9	59.8	63.2	65.9	68.1	70.0	71.8	73.2	75.7	77.7
1.80	61.0	64.4	66.9	69.2	71.3	73.0	74.5	77.4	79.8	87.1
1.75	61.9	65.3	67.9	70.1	72.3	74.1	75.8	78.7	81.0	89.0
1.70	62.7	66.3	69.0	71.2	73.3	75.3	77.1	80.1	82.8	91.4
1.65	63.3	67.1	69.8	-	-	-	-	-	-	-
1.60	63.8	67.7	70.4	-	-	-	-	-	-	-

 **UL Recognised
Component
MH28512**



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