

Haze Battery

Written by Administrator

Friday, 11 June 2010 10:47 - Last Updated Monday, 26 November 2018 13:45

HZB12-100 Valve Regulated Lead Acid battery.
12 year design life for stand by power applications.
12 Volts 100 Ah

Innovative Features



- Completely maintenance free, sealed construction eliminates the need for watering
- Fully tank formed plates
- 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 8962, DIN 43534, BS 6290 Pt4, Eurobat.

Specifications

Nominal Voltage	12 Volts
Nominal Capacity	100Ah (C20 @ 20oC)
Design Life	12 Years

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Operating Temperature -20oC to 50oC
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 @25oC Cycling 2.35 @25oC
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.

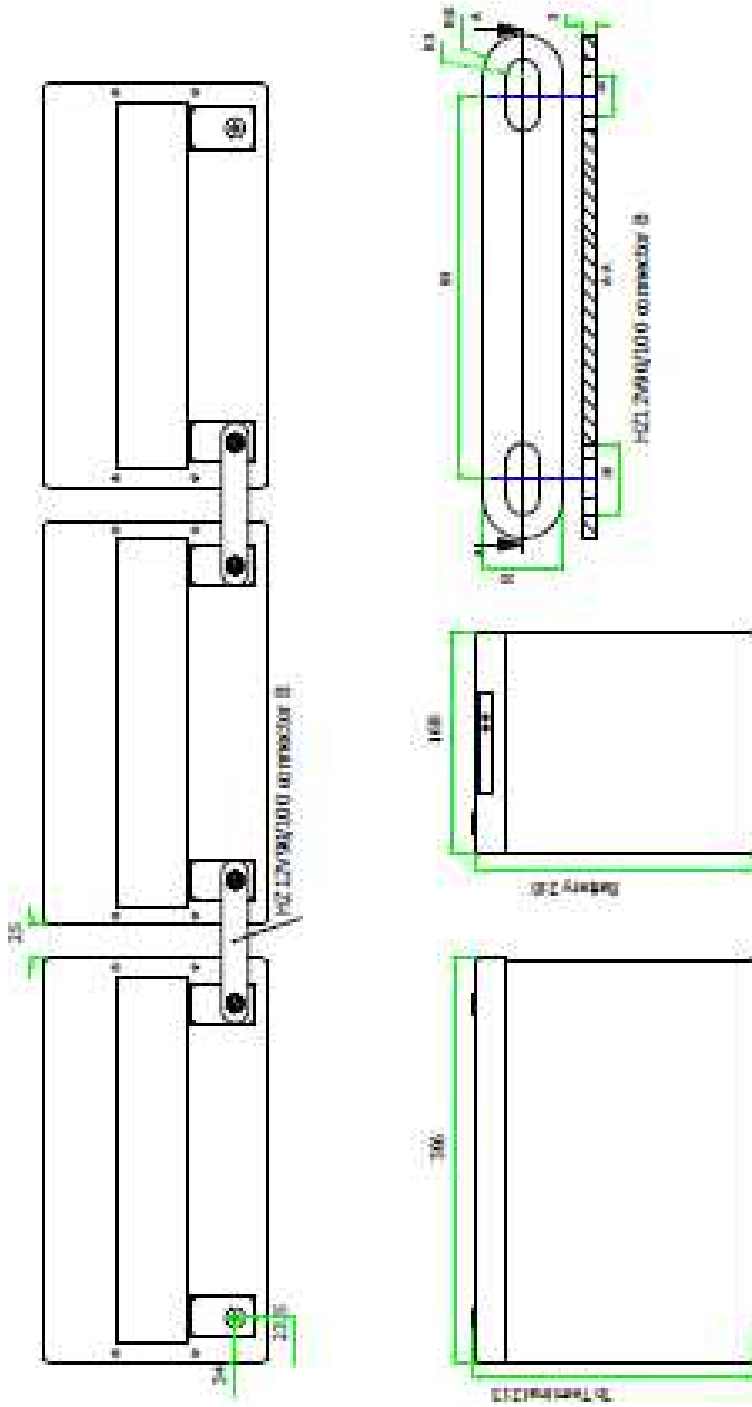
Specifications

Nominal Voltage		20V	
Nominal Capacity		500Ah	
Dimensions	Total Height	200 mm	8.13 inches
	(DC terminals)	69 mm	2.71 inches
	Length	325 mm	12.8 inches
	Width	100 mm	3.94 inches
	Weight	25 kg	55.1 lbs

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Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate	98.6 Ah
	10 hour rate	88.2 Ah
	5 hour rate	78.1 Ah
	1 hour rate	65.0 Ah
	15 min rate	45.5 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)	2900	
Terminal	Standard	14mm Inert M6 thread
	Optional	Cu/Lead Plug - J Type - 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 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	422	339	283	242	210	187	169	155	143	118	83.9	65.2	45.7	35.6
1.80	506	390	313	261	222	196	176	161	149	121	85.5	66.5	46.5	35.9
1.75	533	417	324	266	229	199	179	163	151	121	85.9	67.3	46.7	36.1
1.70	559	432	331	271	231	202	181	165	153	123	87.4	68.8	47.3	36.7
1.65	587	440	338	276	234	204	182	167	154	124	88.8	69.3	47.5	-
1.60	617	448	342	278	236	206	184	168	155	125	89.7	69.7	47.7	-

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	227	182	151	129	111	98.0	88.8	81.3	75.1	61.3	43.5	33.7	23.4	18.1	14.9	10.0	8.23	7.06	4.59
1.80	276	212	169	140	119	105	93.8	85.2	78.9	63.5	44.6	34.5	23.9	18.4	15.1	10.3	8.51	7.31	4.77
1.75	294	229	177	144	123	107	95.7	87.0	79.9	64.0	44.9	35.0	24.2	18.6	15.2	10.3	8.56	7.34	4.78
1.70	311	239	182	148	126	109	97.4	88.5	81.3	65.0	45.9	35.9	24.5	18.9	15.6	10.6	8.82	7.56	4.83
1.65	328	244	186	151	127	110	98.2	89.4	82.0	65.8	46.7	36.3	24.7	-	-	-	-	-	-
1.60	347	250	189	153	129	112	99.1	90.0	82.7	66.3	47.2	36.5	24.8	-	-	-	-	-	-

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	67.3	70.2	72.5	74.7	80.2	82.3	84.7	91.9
1.80	69.0	71.8	73.6	75.5	82.4	85.1	87.7	95.4
1.75	70.0	72.5	74.3	75.8	82.7	85.6	88.1	95.68
1.70	71.8	73.6	75.8	78.1	84.8	88.2	90.8	98.55
1.65	72.5	74.0	-	-	-	-	-	-
1.60	72.9	74.4	-	-	-	-	-	-

