

HZB12-230 Valve Regulated Lead Acid battery.
12 year design life for stand by power applications.
12 Volts 230 Ah

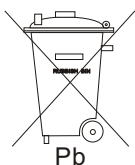
Innovative Features

- 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 896-2, DIN 43534, BS 6290 Pt4, Eurobat.



Specifications

Nominal Voltage	12 Volts
Nominal Capacity	230Ah (C20 @ 20 °C)
Design Life	12 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	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.



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 AGM Range
PRODUCT SHEET HZB12-230

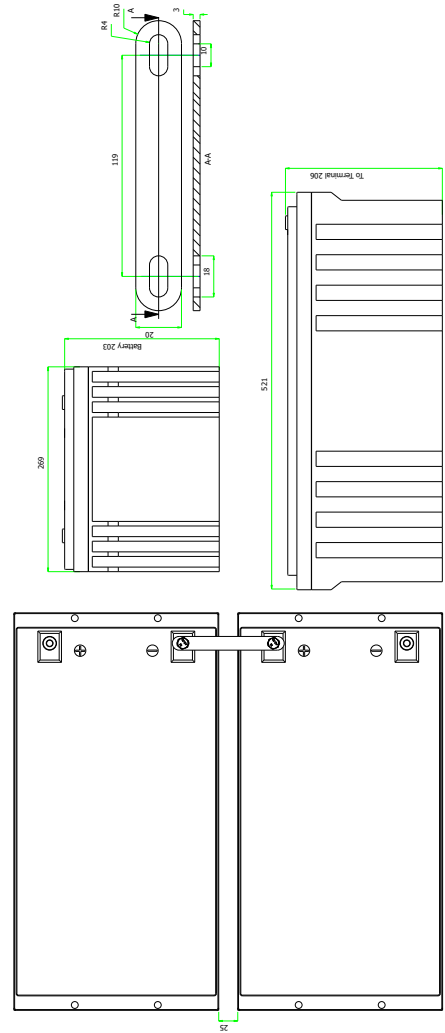
12V
AGM

Specifications

Nominal Voltage		12V	
Nominal Capacity		230 Ah	
Dimensions	Total Height (Inc. terminals)	203 mm	7.99 inches
	Length	521 mm	20.51 inches
	Width	269 mm	10.59 inches
	Weight	70 Kg	154.70 lbs

Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate	229.9 Ah
	10 hour rate	206.4 Ah
	5 hour rate	182.3 Ah
	1 hour rate	147.3 Ah
	15 min rate	81.5 Ah
	Internal Resistance	<2 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)	5900	
Terminal	Standard	14mm Insert M6 thread
	Optional	Cu/Lead Flag - 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	669	580	497	448	411	381	354	332	308	266	194	152	106	82.7
1.80	788	646	541	492	442	406	374	345	327	274	197	154	107	83.6
1.75	830	687	573	515	463	422	386	352	333	278	201	155	107	83.9
1.70	860	710	593	531	473	425	391	358	335	279	201	157	109	85.4
1.65	884	718	608	540	476	428	395	362	339	282	205	159	109	-
1.60	920	729	612	545	480	432	399	365	342	286	207	159	110	-

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	359	310	265	238	218	202	186	175	161	139	100	78.6	54.5	42.2	34.8	23.3	19.4	16.5	10.7
1.80	430	351	293	265	237	217	199	183	172	144	103	80.0	55.2	42.9	35.6	24.1	20.0	17.1	11.1
1.75	458	377	313	279	250	226	206	188	177	147	105	80.6	55.6	43.2	35.8	24.2	20.2	17.2	11.2
1.70	479	393	326	290	257	230	210	191	179	147	106	81.8	56.4	44.1	36.5	24.8	20.6	17.7	11.5
1.65	494	399	335	296	259	232	213	194	181	150	108	82.9	56.7	-	-	-	-	-	-
1.60	517	406	338	299	262	234	215	196	183	152	109	83.3	57.0	-	-	-	-	-	-

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	157	164	169	174	186	194	198	214
1.80	160	166	172	178	193	200	205	222
1.75	161	167	173	179	194	202	206	223
1.70	164	169	176	182	199	206	213	230
1.65	166	170	-	-	-	-	-	-
1.60	167	171	-	-	-	-	-	-

