

HZB12-160 Valve Regulated Lead Acid battery.
12 year design life for stand by power applications.
12 Volts 192 Ah

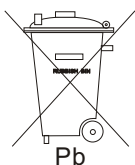
Innovative Features

- 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	192Ah (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 See Haze cyclic charging profile 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 16mm Dia M6 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 HZB12-160

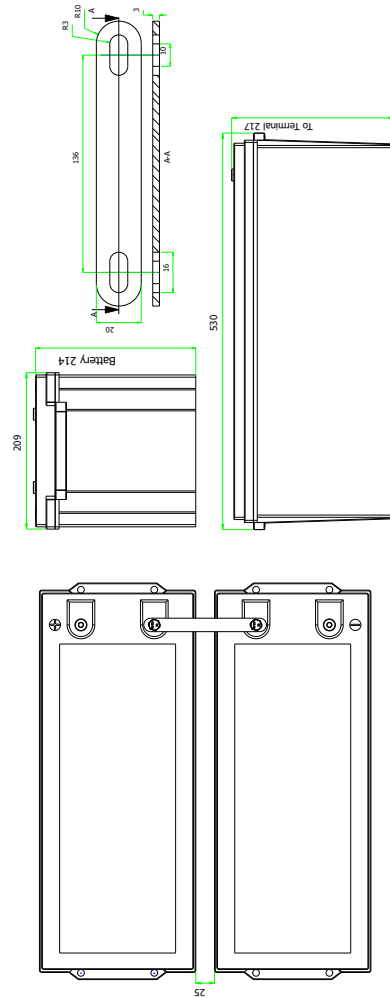
**12V
AGM**

Specifications

Nominal Voltage		12V	
Nominal Capacity		192 Ah	
Dimensions	Total Height (Inc. terminals)	214 mm	8.43 inches
	Length	530 mm	20.87 inches
	Width	209 mm	8.23 inches
	Weight	56 Kg	123.76 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.7 volts	20 hour rate	192.3 Ah
	10 hour rate	181.5 Ah
	5 hour rate	165.8 Ah
	1 hour rate	114.4 Ah
	15 min rate	62.5 Ah
	Internal Resistance	2.7 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)	4700	
Terminal	Standard	16mm Insert M6 t 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 @ 20-25 °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	950	608	474	396	345	307	278	255	237	192	141	112	81.7	65.5	55.7	47.9	41.9	37.4	30.8	26.2	16.7
1.80	1015	649	507	423	369	328	297	273	253	205	150	120	87.2	70.0	59.5	51.2	44.7	40.0	32.9	28.0	17.9
1.75	1080	691	539	450	393	349	316	290	269	218	160	127	92.8	74.5	63.3	54.4	47.6	42.5	35.0	29.8	19.0
1.70	1104	706	551	460	401	356	323	297	275	222	164	130	94.8	76.1	64.7	55.6	48.6	43.4	35.8	30.4	19.4
1.67	1113	712	556	464	405	360	326	299	277	224	165	131	95.7	76.8	-	-	-	-	-	-	-
1.65	1118	715	558	466	406	361	328	300	278	225	166	132	96.0	77.1	-	-	-	-	-	-	-
1.60	1129	722	563	470	410	364	331	303	281	227	167	133	97.0	77.8	-	-	-	-	-	-	-

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	358	255	215	194	176	161	145	132	121	98.5	72.5	57.7	42.7	34.3	28.6	24.5	21.4	19.0	15.6	13.2	8.28
1.80	382	272	230	207	188	172	155	141	130	105	77.4	61.6	45.6	36.7	30.5	26.2	22.8	20.3	16.7	14.1	8.84
1.75	406	290	244	220	200	183	165	150	138	112	82.4	65.6	48.5	39.0	32.4	27.8	24.3	21.6	17.8	15.0	9.41
1.70	415	296	250	225	205	187	168	153	141	114	84.2	67.0	49.5	39.9	33.2	28.5	24.8	22.1	18.2	15.4	9.61
1.67	419	299	252	227	207	188	170	154	142	115	84.9	67.6	50.0	40.2	-	-	-	-	-	-	-
1.65	421	300	253	228	207	189	170	155	143	116	85.3	67.9	50.2	40.4	-	-	-	-	-	-	-
1.60	425	303	255	230	209	191	172	156	144	117	86.1	68.5	50.7	40.8	-	-	-	-	-	-	-

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	115	128	136	143	147	150	152	156	159	166
1.80	123	137	146	153	157	160	162	167	170	177
1.75	131	145	155	162	167	170	173	178	180	188
1.70	134	149	158	166	171	174	177	182	184	192
1.67	135	150	160	-	-	-	-	-	-	-
1.65	136	151	160	-	-	-	-	-	-	-
1.60	137	152	162	-	-	-	-	-	-	-

