

2 VOLT AGM RANGE



HAZE

Haze Battery Company Ltd

The Haze HZB - AGM range covers Ah capacities from 50Ah to 3850Ah (C₁₀) with dimensions suitable for racking systems for maximum space utilisation.

Specially designed racks are available with cables and connectors to suit.

AGM is especially suited for premium sites with low to medium outage rates and climate controlled environments, for more extreme temperature variations and increased cyclic demands please consult the Haze HZY - GEL range.

Haze facilities are fully accredited to ISO 14001 and the management system fully accredited to ISO 9001.

Specifications

Nominal Voltage	2 Volts
Design Life	15 Years
Operating Temperature	-20 °C to 50 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	AGM - Absorbant Glass Mat
Active material	Very high purity lead
Case and cover	ABS (VO on request)
Charge Voltage	Float 2.27 - 2.30 VPC @20 °C Cycling 2.4 @20 °C Max. 2.45 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	Epoxy sealed by extended mechanical paths
Torque setting	The recommended torque value is 7-10 Nm
Connectors	Supplied as standard (4 hr rate)



Innovative Features

Designed to meet the needs of UPS and many other diverse applications where DC power is required on demand.

- Completely maintenance free, sealed construction eliminates the need for watering.
- Increased durability and deep cycle ability for heavy demand applications.
- 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.



AGM Vs Gel

Each battery has advantages and disadvantages, it is therefore important to choose the right battery for the application.

Advantages of AGM Batteries:

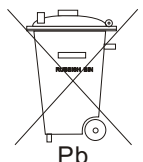
- Lower initial cost when compared to Gelled Electrolyte cells.
- Ideal for starting and stationary applications.
- Superior performance for shorter duration / higher current discharges.
- Smaller size battery can be used for higher rate discharges.

CHARGING CHARACTERISTICS

Floating - The optimum float voltage for a battery is temperature dependant, at 15 - 24°C the recommended value is 2.27 - 2.30V. It is recommended that battery installation sites are temperature controlled, however float voltage can be increased or decreased to compensate for temperature variations. Adjustment is calculated at +/- 3 mV per degree C.

Operating Temperature	Recommended Applied Float Voltage VPC
0-9	2.33 - 2.35
10-14	2.30 - 2.33
15-19	2.27 - 2.30
20-24	2.27 - 2.30
25-29	2.25 - 2.27
30-34	2.23 - 2.25
35-40	2.21 - 2.23

The most suitable charging method for battery life and performance is the constant voltage method with a limited initial current, usually limited to a maximum of $C_{20}/4$.



Applications

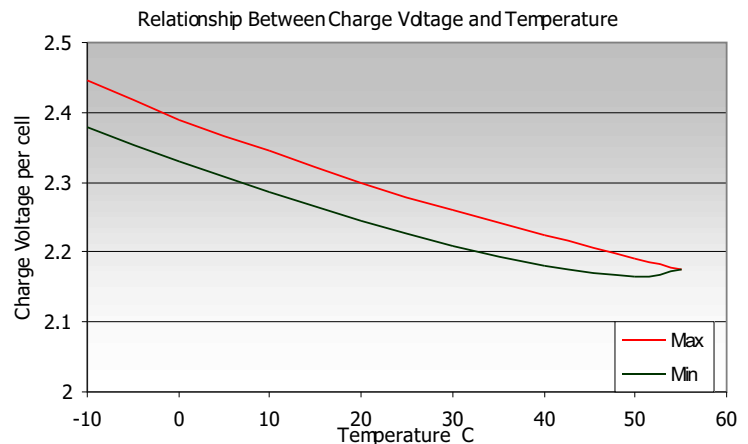
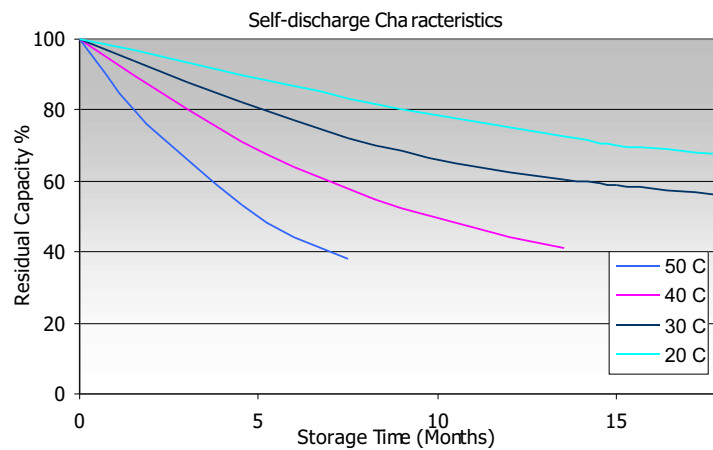
- Float service
- Medical
- Switch Gear
- Solar
- Control Systems
- Cathodic Protection
- Marine equipment
- Uninterruptible Power Supplies
- Telecommunications
- Photovoltaic
- Wind
- Cellular Radio Stations
- Navigation Aids
- Electric Power Systems



Temperature	Shelf Life
0 °C - 20 °C (32 °F - 68 °F)	12 Months
21 °C - 30 °C (69 °F - 86 °F)	9 Months
31 °C - 40 °C (87 °F - 104 °F)	5 Months
41 °C - 50 °C (105 °F - 112 °F)	2.5 Months

Capacity temperature correction Factor to be applied to Data at 20 Degrees C

Discharge Time	-30 °C	-20 °C	-10 °C	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C	50 °C
5 minutes to 59 minutes	0.23	0.417	0.605	0.778	0.86	0.91	0.96	1	1.037	1.063	1.085	1.1	1.116
1 Hour to 100 Hours	0.277	0.464	0.647	0.816	0.886	0.93	0.97	1	1.028	1.05	1.063	1.07	1.078



End of Discharge Voltage = 1.85										DISCHARGE CURRENT in A								20 - 25 °C			
Model	15'	20'	25'	30'	35'	40'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr	
HZB2-50	74.4	64.4	56.7	50.6	45.8	41.9	38.5	30.7	22.0	17.5	12.9	10.3	8.62	7.49	6.61	5.92	4.91	4.18	2.59	2.18	
HZB2-100	153	132	116	105	94.7	86.4	79.1	62.8	45.2	36.0	26.3	21.0	17.6	15.2	13.6	12.1	10.0	8.53	5.31	4.48	
HZB2-150	210	180	161	143	128	118	108	87.3	64.0	51.4	38.0	30.5	25.7	22.3	19.8	17.6	14.7	12.5	7.64	6.43	
HZB2-200	227	206	191	175	160	149	138	113	85.3	69.3	50.8	40.7	34.5	29.9	26.6	23.8	19.8	16.8	10.3	8.69	
HZB2-250	290	257	236	219	202	189	176	146	111	89.7	66.1	52.7	44.2	38.2	33.9	30.2	25.1	21.3	13.1	11.0	
HZB2-300	340	300	276	257	239	224	209	173	132	107	78.8	63.2	53.0	45.9	40.7	36.3	30.2	25.6	15.8	13.2	
HZB2-375	426	387	358	331	304	284	264	217	162	133	98.9	79.0	66.2	57.0	50.7	45.3	37.5	31.8	19.8	16.7	
HZB2-400	490	449	400	369	342	317	293	242	180	146	107	85.3	71.3	61.0	54.1	48.2	40.0	34.0	21.4	18.1	
HZB2-450	511	465	428	393	361	335	309	256	190	153	112	88.8	74.4	64.4	57.3	51.1	42.4	36.0	22.4	18.9	
HZB2-500-1	567	512	473	442	415	386	357	293	220	177	129	103	86.4	74.4	66.1	59.3	49.4	42.1	26.5	22.5	
HZB2-500-2	567	512	473	442	415	386	357	293	220	177	129	103	86.4	74.4	66.1	59.3	49.4	42.1	26.5	22.5	
HZB2-575	646	578	535	498	457	426	397	324	244	200	146	117	97.8	84.2	74.9	66.7	55.4	47.1	29.5	24.8	
HZB2-600	681	621	569	525	481	446	412	340	252	204	150	121	102	88.4	78.4	69.9	57.8	49.1	30.8	26.0	
HZB2-625	710	642	588	546	505	467	431	354	263	212	156	125	105	90.0	80.0	71.5	59.5	50.7	32.1	27.1	
HZB2-750	851	763	711	656	601	557	516	426	317	255	187	149	125	108	95.9	85.7	70.7	60.1	37.6	31.9	
HZB2-800	922	833	760	699	643	594	552	454	340	275	204	163	138	119	105	94.4	78.4	66.7	41.8	35.3	
HZB2-1000-1	1128	1029	943	870	804	746	692	567	421	339	247	198	166	144	127	114	94.3	80.2	50.1	42.2	
HZB2-1000-2	1128	1029	943	870	804	746	692	567	421	339	247	198	166	144	127	114	94.3	80.2	50.1	42.2	
HZB2-1250	1372	1270	1185	1092	1007	932	867	710	525	424	312	250	209	180	160	143	118	100	62.2	52.6	
HZB2-1500	1600	1557	1426	1310	1201	1115	1030	851	635	509	373	299	249	216	193	171	142	120	75.0	63.2	
HZB2-1875	1900	1897	1759	1616	1483	1373	1269	1045	781	637	467	372	313	270	240	214	177	150	94.0	79.7	
HZB2-2000	2164	2008	1851	1724	1608	1500	1387	1135	839	679	497	396	334	288	257	229	189	160	100	84.6	
HZB2-2500	2760	2520	2345	2164	1995	1854	1716	1418	1059	849	621	493	414	358	320	285	236	200	125	106	
HZB2-3000	3200	2995	2755	2550	2363	2205	2059	1702	1266	1019	743	595	498	432	385	343	284	241	151	127	
HZB2-3850	3800	3800	3495	3268	3051	2850	2643	2185	1621	1308	969	762	639	554	493	439	363	309	193	163	

End of Discharge Voltage = 1.80										DISCHARGE CURRENT in A								20 - 25 °C			
Model	15'	20'	25'	30'	35'	40'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr	
HZB2-50	77.8	66.5	58.2	52.3	47.1	42.9	39.5	31.5	22.6	18.0	13.2	10.6	8.82	7.63	6.77	6.06	5.03	4.28	2.65	2.23	
HZB2-100	161	137	121	108	97.1	88.4	80.9	64.6	46.4	37.0	27.0	21.5	18.1	15.6	13.9	12.4	10.2	8.68	5.40	4.56	
HZB2-150	226	193	169	150	133	123	113	91.2	66.7	53.5	39.4	31.6	26.4	22.9	20.4	18.2	15.2	12.8	7.87	6.63	
HZB2-200	244	221	207	188	172	159	148	121	89.1	72.3	53.0	42.3	35.8	31.0	27.5	24.6	20.5	17.4	10.7	8.97	
HZB2-250	313	276	252	231	212	198	184	151	114	92.0	67.8	54.1	45.4	39.2	34.7	31.0	25.8	21.9	13.4	11.3	
HZB2-300	366	323	293	270	252	236	219	180	136	110	80.5	64.5	54.0	46.7	41.6	37.2	30.8	26.2	16.1	13.5	
HZB2-375	458	416	379	347	319	297	275	225	167	137	102	81.6	68.1	58.7	52.1	46.5	38.4	32.7	20.2	17.0	
HZB2-400	518	464	416	380	351	324	301	247	184	149	109	87.0	72.5	62.3	55.4	49.5	40.9	34.7	21.9	18.5	
HZB2-450	563	512	462	423	389	360	332	271	202	163	119	95.0	79.2	68.5	60.9	54.4	45.1	38.3	23.9	20.2	
HZB2-500-1	610	551	504	470	433	402	373	303	227	183	133	106	89.0	76.6	68.3	61.1	50.7	43.3	27.3	23.2	
HZB2-500-2	610	551	504	470	433	402	373	303	227	183	133	106	89.0	76.6	68.3	61.1	50.7	43.3	27.3	23.2	
HZB2-575	695	633	578	532	486	453	421	342	256	208	153	122	102	87.7	77.9	69.4	57.7	48.9	30.7	25.9	
HZB2-600	732	660	605	556	517	479	443	362	269	217	159	127	106	91.7	81.4	73.0	60.2	51.2	32.2	27.3	
HZB2-625	763	678	624	578	532	492	457	375	278	225	165	132	110	95.3	84.7	75.4	62.8	53.4	33.7	28.6	
HZB2-750	932	833	765	705	645	596	549	449	333	271	199	159	134	115	102	91.1	75.2	63.9	40.1	34.0	
HZB2-800	988	888	813	752	689	638	590	480	356	289	212	169	142	123	109	97.3	81.0	69.2	43.3	36.7	
HZB2-1000-1	1232	1116	1013	932	860	800	741	605	447	361	264	210	177	153	136	121	100	85.3	53.3	45.0	
HZB2-1000-2	1232	1116	1013	932	860	800	741	605	447	361	264	210	177	153	136	121	100	85.3	53.3	45.0	
HZB2-1250	1528	1386	1260	1156	1067	990	916	747	555	451	331	264	221	192	170	152	126	106	66.2	56.2	
HZB2-1500	1600	1600	1524	1392	1282	1194	1107	902	673	541	394	316	265	230	205	182	151	128	79.9	67.2	
HZB2-1875	1900	1900	1900	1738	1590	1478	1359	1114	831	677	497	397	332	287	255	228	188	160	100	84.8	
HZB2-2000	2428	2193	2016	1856	1724	1599	1476	1205	893	722	530	422	353	307	273	243	201	170	107	90.5	
HZB2-2500	3084	2760	2521	2326	2143	1998	1845	1509	1117	903	662	527	443	383	342	304	251	213	133	114	
HZB2-3000	3200	3200	2954	2750	2560	2378	2214	1804	1338	1084	795	632	531	459	409	365	301	256	161	136	
HZB2-3850	3800	3800	3800	3562	3302	3054	2842	2324	1720	1391	1025	816	680	590	524	466	386	329	205	174	

End of Discharge Voltage = 1.75									DISCHARGE CURRENT in A								20 - 25 °C			
Model	15'	20'	25'	30'	35'	40'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
HZB2-50	80.3	68.2	59.6	53.4	47.9	43.8	40.1	32.1	22.9	18.3	13.4	10.7	8.98	7.78	6.89	6.18	5.13	4.34	2.70	2.28
HZB2-100	166	141	124	110	99.3	90.3	82.7	65.6	47.3	37.7	27.5	22.0	18.4	15.9	14.1	12.6	10.4	8.85	5.50	4.63
HZB2-150	237	202	177	157	140	129	118	94.8	69.3	55.3	40.5	32.5	27.3	23.6	21.0	18.7	15.5	13.2	8.07	6.77
HZB2-200	277	240	218	196	180	167	154	125	92.7	74.7	54.7	43.6	36.8	31.9	28.3	25.2	20.9	17.8	10.9	9.18
HZB2-250	326	287	260	239	218	203	189	154	116	94.1	69.1	55.4	46.4	39.9	35.4	31.5	26.2	22.3	13.7	11.5
HZB2-300	386	338	307	283	262	244	226	186	140	113	82.7	65.9	55.1	47.8	42.4	38.0	31.5	26.7	16.4	13.8
HZB2-375	475	439	397	363	332	306	285	232	172	140	104	82.9	69.3	59.9	53.0	47.2	39.2	33.3	20.6	17.4
HZB2-400	553	483	431	393	361	333	308	251	187	151	111	88.7	74.0	63.6	56.4	50.4	41.7	35.4	22.3	18.9
HZB2-450	604	545	489	448	413	382	352	286	210	169	124	98.8	82.6	71.6	63.4	56.6	46.9	39.9	24.9	21.0
HZB2-500-1	668	591	538	492	451	416	385	312	234	188	138	110	92.2	79.2	70.6	62.8	52.3	44.4	28.0	23.9
HZB2-500-2	668	591	538	492	451	416	385	312	234	188	138	110	92.2	79.2	70.6	62.8	52.3	44.4	28.0	23.9
HZB2-575	760	684	614	564	515	476	440	360	265	215	158	126	105	90.9	80.7	72.1	59.6	50.6	31.6	26.8
HZB2-600	800	726	653	598	546	506	467	382	281	226	165	132	111	95.5	84.9	75.9	62.7	53.3	33.6	28.4
HZB2-625	832	741	670	610	563	521	483	398	292	235	173	137	114	98.8	87.7	78.4	65.3	55.6	35.1	29.9
HZB2-750	950	897	814	747	683	628	581	476	351	282	209	166	139	120	106	94.3	78.3	66.5	41.7	35.4
HZB2-800	1059	947	854	786	725	672	621	505	373	301	221	176	147	127	113	100	83.6	71.1	44.5	38.0
HZB2-1000-1	1344	1185	1068	982	898	836	776	631	467	375	275	219	184	159	141	126	104	88.8	55.5	46.9
HZB2-1000-2	1344	1185	1068	982	898	836	776	631	467	375	275	219	184	159	141	126	104	88.8	55.5	46.9
HZB2-1250	1668	1488	1344	1228	1128	1046	968	789	580	469	348	278	231	200	177	158	131	111	68.9	58.5
HZB2-1500	1600	1600	1600	1476	1353	1248	1157	940	699	563	413	330	276	239	213	190	157	133	83.1	70.2
HZB2-1875	1900	1900	1900	1858	1700	1568	1447	1181	877	705	522	416	347	299	265	237	196	166	104	88.5
HZB2-2000	2640	2358	2160	1986	1824	1686	1555	1263	930	750	552	440	370	319	284	253	209	177	111	94.4
HZB2-2500	3296	2952	2693	2468	2288	2112	1957	1586	1171	947	696	552	463	399	354	315	261	221	139	118
HZB2-3000	3200	3200	3178	2936	2730	2537	2348	1900	1407	1128	832	661	554	478	425	379	313	267	167	142
HZB2-3850	3800	3800	3800	3764	3485	3234	3000	2438	1796	1448	1067	850	708	614	546	486	402	342	214	181

End of Discharge Voltage = 1.70										DISCHARGE CURRENT in A								20 - 25 °C			
Model	15'	20'	25'	30'	35'	40'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr	
HZB2-50	82.9	69.9	60.8	54.4	48.7	44.5	40.7	32.5	23.3	18.5	13.6	10.9	9.12	7.91	7.01	6.24	5.20	4.41	2.74	2.32	
HZB2-100	170	144	127	112	101	92.0	83.7	66.5	48.0	38.3	27.9	22.3	18.6	16.1	14.3	12.7	10.5	8.93	5.57	4.68	
HZB2-150	247	209	184	162	145	132	121	96.9	70.7	56.5	41.5	33.3	27.9	24.1	21.4	19.0	15.7	13.3	8.20	6.90	
HZB2-200	283	245	222	204	187	173	159	129	94.9	76.2	55.6	44.4	37.2	32.2	28.6	25.5	21.3	18.1	11.1	9.32	
HZB2-250	339	295	268	244	224	207	192	157	118	95.3	70.0	56.0	47.0	40.4	35.7	31.9	26.5	22.5	13.9	11.7	
HZB2-300	400	350	314	290	269	249	231	189	142	114	83.6	66.7	55.9	48.6	43.0	38.4	31.9	27.1	16.6	14.0	
HZB2-375	475	460	410	372	338	314	291	237	175	141	105	84.1	70.5	60.6	53.7	47.7	39.5	33.5	21.0	17.8	
HZB2-400	576	503	447	406	370	339	313	255	191	154	113	90.0	75.2	64.9	57.4	51.1	42.6	36.1	22.8	19.3	
HZB2-450	634	566	507	462	423	392	359	292	215	173	126	101	84.0	72.7	64.3	57.7	47.9	40.7	25.3	21.4	
HZB2-500-1	707	620	557	508	464	428	395	319	237	191	139	111	93.4	80.6	71.3	63.6	52.8	44.8	28.3	24.1	
HZB2-500-2	707	620	557	508	464	428	395	319	237	191	139	111	93.4	80.6	71.3	63.6	52.8	44.8	28.3	24.1	
HZB2-575	805	702	636	579	529	486	447	367	270	219	161	129	107	92.7	82.4	73.6	60.8	51.6	32.2	27.3	
HZB2-600	800	755	684	618	565	522	483	391	289	230	169	135	113	97.4	86.4	77.4	63.9	54.3	34.2	29.0	
HZB2-625	864	772	694	628	577	531	492	406	298	239	176	140	117	101	89.7	80.0	66.6	56.7	35.8	30.4	
HZB2-750	950	926	847	762	696	642	594	486	358	288	213	169	141	122	108	96.1	79.8	67.9	42.5	36.1	
HZB2-800	1130	992	887	813	745	687	635	517	381	307	226	180	150	130	115	103	85.3	72.5	45.4	38.7	
HZB2-1000-1	1408	1233	1111	1016	928	860	795	646	476	383	280	224	188	163	144	129	106	90.6	56.6	47.8	
HZB2-1000-2	1408	1233	1111	1016	928	860	795	646	476	383	280	224	188	163	144	129	106	90.6	56.6	47.8	
HZB2-1250	1732	1530	1378	1260	1157	1071	988	805	592	479	354	283	236	204	180	161	133	113	70.3	59.3	
HZB2-1500	1600	1600	1600	1521	1396	1290	1187	959	713	575	426	339	283	246	217	194	160	136	84.5	71.3	
HZB2-1875	1900	1900	1900	1900	1744	1611	1489	1213	894	719	532	424	355	305	270	242	200	169	106	90.0	
HZB2-2000	2764	2436	2215	2033	1872	1727	1588	1288	949	767	568	452	377	326	289	258	213	181	113	96.1	
HZB2-2500	3476	3091	2784	2540	2348	2165	1996	1618	1195	964	710	564	471	407	360	321	267	226	141	121	
HZB2-3000	3200	3200	3200	3049	2816	2600	2395	1938	1435	1150	850	677	566	488	432	385	320	272	171	145	
HZB2-3850	3800	3800	3800	3800	3611	3345	3074	2487	1832	1477	1087	865	722	626	557	494	410	349	218	185	

End of Discharge Voltage = 1.65										DISCHARGE CURRENT in A								20 - 25 °C			
Model	15'	20'	25'	30'	35'	40'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr	
HZB2-50	84.8	71.4	62.1	55.2	49.7	45.4	41.5	33.0	23.6	18.8	13.8	11.0	-	-	-	-	-	-	-	-	
HZB2-100	175	147	129	114	103	93.3	85.1	67.3	48.6	38.8	28.2	22.5	-	-	-	-	-	-	-	-	
HZB2-150	254	214	188	166	148	134	123	98.4	71.7	57.3	41.9	33.6	-	-	-	-	-	-	-	-	
HZB2-200	303	264	235	211	193	177	163	131	96.3	77.3	56.3	44.9	-	-	-	-	-	-	-	-	
HZB2-250	356	306	276	249	228	213	197	159	119	96.4	70.9	57.1	-	-	-	-	-	-	-	-	
HZB2-300	400	359	323	298	274	254	235	193	144	116	84.5	67.9	-	-	-	-	-	-	-	-	
HZB2-375	475	472	419	380	345	319	295	241	177	143	107	85.3	-	-	-	-	-	-	-	-	
HZB2-400	604	521	456	413	376	345	318	259	193	156	114	91.0	-	-	-	-	-	-	-	-	
HZB2-450	664	582	524	476	433	400	368	297	219	176	128	102	-	-	-	-	-	-	-	-	
HZB2-500-1	740	645	571	520	476	437	400	322	239	193	141	112	-	-	-	-	-	-	-	-	
HZB2-500-2	740	645	571	520	476	437	400	322	239	193	141	112	-	-	-	-	-	-	-	-	
HZB2-575	840	726	653	596	541	497	457	372	275	222	163	130	-	-	-	-	-	-	-	-	
HZB2-600	800	784	696	632	575	533	491	398	294	234	171	136	-	-	-	-	-	-	-	-	
HZB2-625	912	801	710	645	590	545	504	411	302	244	179	142	-	-	-	-	-	-	-	-	
HZB2-750	950	950	870	783	712	658	607	494	364	293	216	172	-	-	-	-	-	-	-	-	
HZB2-800	1172	1020	912	833	758	700	646	525	385	313	228	182	-	-	-	-	-	-	-	-	
HZB2-1000-1	1452	1257	1133	1036	945	873	804	654	481	387	284	227	-	-	-	-	-	-	-	-	
HZB2-1000-2	1452	1257	1133	1036	945	873	804	654	481	387	284	227	-	-	-	-	-	-	-	-	
HZB2-1250	1776	1566	1409	1290	1184	1095	1009	820	602	484	358	286	-	-	-	-	-	-	-	-	
HZB2-1500	1600	1600	1600	1545	1420	1319	1216	987	726	585	431	344	-	-	-	-	-	-	-	-	
HZB2-1875	1900	1900	1900	1900	1775	1637	1512	1233	908	731	539	430	-	-	-	-	-	-	-	-	
HZB2-2000	2856	2502	2258	2088	1911	1754	1612	1311	969	786	580	462	-	-	-	-	-	-	-	-	
HZB2-2500	3564	3160	2844	2602	2389	2205	2037	1649	1225	983	722	575	-	-	-	-	-	-	-	-	
HZB2-3000	3200	3200	3200	3114	2870	2649	2454	1980	1467	1170	862	685	-	-	-	-	-	-	-	-	
HZB2-3850	3800	3800	3800	3800	3697	3416	3143	2541	1860	1505	1103	878	-	-	-	-	-	-	-	-	

End of Discharge Voltage = 1.85								DISCHARGE IN WATTS PER CELL										20 - 25 °C			
Model	15'	20'	25'	30'	35'	40'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr	
HZB2-50	140	121	107	95.6	86.0	79.1	72.9	58.4	42.7	34.3	25.2	20.3	17.2	15.0	13.3	11.9	9.91	8.41	5.16	4.33	
HZB2-100	277	242	214	192	173	158	146	119	86.0	68.9	51.1	41.3	34.8	30.3	26.8	24.1	20.0	17.0	10.6	8.92	
HZB2-150	385	337	300	272	246	226	208	169	125	101	75.5	61.3	51.7	44.9	39.8	35.8	29.9	25.5	15.6	13.1	
HZB2-200	415	378	352	325	302	283	265	220	166	135	100	80.9	68.3	59.5	52.7	47.2	39.4	33.4	20.7	17.4	
HZB2-250	546	501	462	427	394	368	342	284	216	174	130	104	87.6	76.0	67.3	60.4	50.5	43.1	26.5	22.2	
HZB2-300	623	565	520	488	457	432	408	343	257	208	155	125	106	91.8	81.6	73.0	60.9	51.7	31.7	26.5	
HZB2-375	784	714	660	624	585	551	513	422	315	257	194	156	131	114	101	90.5	75.9	65.0	40.3	34.0	
HZB2-400	831	771	715	662	618	581	543	451	342	279	206	165	139	120	107	95.7	79.8	67.9	42.8	36.2	
HZB2-450	988	894	821	754	695	642	596	490	365	296	218	175	148	130	114	102	84.5	72.0	45.2	38.2	
HZB2-500-1	1038	943	874	822	770	720	667	551	413	339	252	204	171	149	132	118	98.2	83.3	52.0	43.8	
HZB2-500-2	1038	943	874	822	770	720	667	551	413	339	252	204	171	149	132	118	98.2	83.3	52.0	43.8	
HZB2-575	1183	1064	995	936	869	813	757	633	472	385	286	231	195	169	150	134	111	95.3	58.9	49.6	
HZB2-600	1288	1140	1056	984	922	864	803	663	493	399	294	237	199	174	154	138	115	98.3	61.9	52.6	
HZB2-625	1299	1160	1077	1015	951	893	827	682	507	410	305	246	209	182	161	145	121	103	65.3	55.3	
HZB2-750	1557	1425	1311	1220	1131	1058	984	814	613	497	369	296	250	217	193	172	144	123	76.7	65.0	
HZB2-800	1661	1524	1399	1301	1195	1118	1052	878	657	532	397	320	269	232	206	183	154	131	82.2	69.5	
HZB2-1000-1	2076	1865	1739	1612	1493	1404	1311	1086	808	655	488	393	331	287	254	227	188	160	100	84.8	
HZB2-1000-2	2076	1865	1739	1612	1493	1404	1311	1086	808	655	488	393	331	287	254	227	188	160	100	84.8	
HZB2-1250	2532	2337	2174	2031	1882	1755	1636	1354	1009	820	609	491	412	358	317	284	235	200	125	105	
HZB2-1500	3064	2812	2614	2430	2282	2130	1980	1630	1220	984	728	586	494	432	382	342	283	240	150	127	
HZB2-1875	3686	3491	3270	3006	2771	2600	2425	2011	1507	1231	910	733	617	533	474	425	353	300	188	159	
HZB2-2000	3976	3694	3450	3216	2986	2804	2622	2173	1612	1309	969	776	657	570	505	453	377	320	201	169	
HZB2-2500	5076	4632	4297	4063	3797	3551	3277	2716	2033	1641	1210	967	815	707	627	565	471	400	251	213	
HZB2-3000	6000	5490	5136	4840	4539	4245	3960	3259	2431	1970	1448	1166	982	853	756	677	564	482	302	255	
HZB2-3850	7372	7033	6552	6160	5717	5385	5048	4183	3113	2528	1870	1496	1259	1095	969	867	724	618	388	328	

End of Discharge Voltage = 1.80								DISCHARGE IN WATTS PER CELL										20 - 25 °C			
Model	15'	20'	25'	30'	35'	40'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr	
HZB2-50	146	125	110	98.2	88.2	81.2	74.8	60.0	43.8	35.0	25.7	20.8	17.6	15.3	13.6	12.1	10.1	8.57	5.25	4.41	
HZB2-100	291	252	222	198	177	162	150	121	88.2	70.7	52.2	42.2	35.5	31.0	27.4	24.6	20.5	17.4	10.8	9.13	
HZB2-150	414	357	317	285	258	236	216	177	130	105	78.4	62.9	53.1	46.2	41.0	36.8	30.6	25.9	15.9	13.4	
HZB2-200	447	407	377	350	325	303	281	231	173	141	104	83.7	70.6	61.5	54.5	48.7	40.6	34.6	21.3	17.9	
HZB2-250	588	529	484	446	411	380	353	292	221	178	132	106	89.4	77.5	68.6	61.6	51.4	43.9	26.9	22.6	
HZB2-300	670	613	563	525	481	450	422	354	265	214	159	128	108	93.7	83.1	74.5	62.0	52.7	32.3	27.1	
HZB2-375	838	745	689	655	608	569	529	432	323	263	198	160	134	117	103	92.5	77.4	66.2	41.0	34.7	
HZB2-400	893	822	761	699	647	600	563	463	351	285	211	170	142	123	109	98.0	81.6	69.4	43.8	37.0	
HZB2-450	1052	942	862	796	737	684	634	519	388	315	233	186	158	137	122	109	89.9	76.6	48.1	40.6	
HZB2-500-1	1116	1014	938	874	814	756	703	578	430	349	261	210	177	153	136	122	101	85.8	53.4	45.2	
HZB2-500-2	1116	1014	938	874	814	756	703	578	430	349	261	210	177	153	136	122	101	85.8	53.4	45.2	
HZB2-575	1272	1144	1070	995	925	858	797	665	492	399	299	241	203	176	156	139	116	98.8	61.3	51.7	
HZB2-600	1380	1227	1128	1049	969	906	846	693	516	419	309	248	208	181	161	144	120	102	64.6	54.9	
HZB2-625	1396	1248	1158	1072	997	938	869	720	537	434	322	259	219	190	169	151	126	108	68.0	57.6	
HZB2-750	1696	1539	1409	1311	1213	1130	1049	860	647	524	387	310	261	228	202	181	150	128	80.3	67.9	
HZB2-800	1786	1629	1504	1399	1288	1200	1120	924	687	559	413	332	279	243	215	191	160	137	85.8	72.6	
HZB2-1000-1	2233	2006	1855	1720	1609	1506	1410	1159	858	697	515	414	349	303	269	241	200	171	107	90.4	
HZB2-1000-2	2233	2006	1855	1720	1609	1506	1410	1159	858	697	515	414	349	303	269	241	200	171	107	90.4	
HZB2-1250	2848	2556	2317	2160	1997	1863	1737	1431	1066	872	645	518	436	379	336	301	250	213	133	112	
HZB2-1500	3104	3030	2801	2596	2415	2250	2103	1727	1292	1046	767	619	522	456	406	363	301	255	160	135	
HZB2-1875	3686	3686	3516	3233	3000	2792	2607	2152	1604	1303	966	777	650	567	504	451	375	319	201	170	
HZB2-2000	4465	4041	3737	3466	3218	3009	2811	2308	1715	1389	1032	827	696	606	538	482	401	340	214	181	
HZB2-2500	5582	4981	4621	4369	4096	3809	3524	2869	2132	1745	1290	1034	873	757	674	605	501	425	267	227	
HZB2-3000	6208	5925	5528	5200	4829	4530	4227	3455	2569	2095	1549	1239	1046	908	807	721	600	513	321	272	
HZB2-3850	7372	7372	7278	6728	6246	5805	5428	4450	3302	2689	1998	1600	1340	1166	1033	922	770	657	413	350	

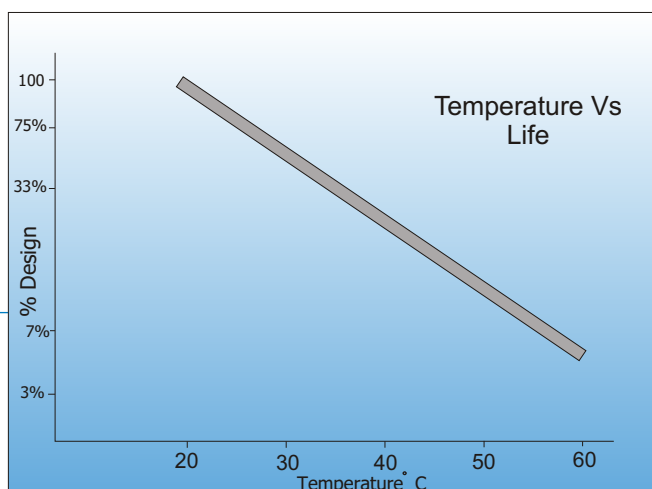
End of Discharge Voltage = 1.75								DISCHARGE IN WATTS PER CELL									20 - 25 °C			
Model	15'	20'	25'	30'	35'	40'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
HZB2-50	150	128	112	100	89.8	82.5	76.1	61.0	44.7	35.5	26.2	21.1	17.9	15.5	13.7	12.3	10.2	8.67	5.33	4.48
HZB2-100	302	257	226	201	180	165	152	123	90.4	72.3	53.4	43.2	36.2	31.6	28.0	25.1	20.8	17.7	11.0	9.30
HZB2-150	432	372	328	294	265	242	222	181	134	108	80.6	64.5	54.3	47.3	41.8	37.4	31.1	26.4	16.3	13.6
HZB2-200	491	433	395	367	338	313	289	237	178	145	108	86.3	72.5	62.8	55.6	49.7	41.4	35.3	21.8	18.3
HZB2-250	618	547	502	458	420	389	360	299	226	181	135	108	90.8	78.8	69.7	62.4	52.1	44.4	27.3	23.0
HZB2-300	751	655	598	553	507	468	439	364	270	218	162	130	110	95.2	84.4	75.4	62.9	53.3	32.8	27.6
HZB2-375	904	792	730	680	630	584	543	441	330	269	203	163	136	118	105	94.0	78.3	66.9	41.7	35.1
HZB2-400	976	867	794	732	667	621	579	477	359	291	217	173	145	126	111	100	82.9	70.6	44.7	37.7
HZB2-450	1126	992	907	836	773	716	663	548	404	327	242	195	164	142	126	113	93.6	79.7	50.0	42.4
HZB2-500-1	1220	1080	986	918	853	791	732	602	447	362	270	217	183	159	140	125	104	88.4	55.2	46.6
HZB2-500-2	1220	1080	986	918	853	791	732	602	447	362	270	217	183	159	140	125	104	88.4	55.2	46.6
HZB2-575	1400	1221	1133	1051	961	890	830	689	508	415	308	248	208	180	159	142	119	101	62.7	53.0
HZB2-600	1492	1314	1210	1106	1012	941	874	725	540	436	321	258	216	189	167	149	125	106	67.2	57.5
HZB2-625	1528	1344	1238	1140	1051	978	910	750	561	454	334	269	225	196	174	156	130	111	70.3	59.6
HZB2-750	1836	1626	1498	1378	1263	1178	1092	896	673	546	403	324	273	237	210	188	156	133	83.6	70.9
HZB2-800	1952	1752	1608	1474	1355	1260	1171	960	711	579	430	347	292	253	225	199	167	142	89.3	75.8
HZB2-1000-1	2400	2136	1956	1800	1676	1568	1463	1212	896	725	539	432	364	315	280	251	208	178	111	94.3
HZB2-1000-2	2400	2136	1956	1800	1676	1568	1463	1212	896	725	539	432	364	315	280	251	208	178	111	94.3
HZB2-1250	3032	2706	2458	2280	2094	1949	1819	1496	1114	907	677	545	455	394	350	312	260	221	138	117
HZB2-1500	3104	3104	2969	2718	2519	2352	2180	1800	1343	1089	813	647	545	474	420	376	313	266	167	141
HZB2-1875	3686	3686	3686	3412	3145	2928	2729	2236	1673	1361	1011	815	684	590	524	469	391	332	209	177
HZB2-2000	4840	4347	3982	3670	3394	3162	2933	2419	1786	1445	1076	863	728	631	560	500	417	354	222	188
HZB2-2500	5940	5349	4901	4607	4287	3987	3685	3009	2249	1816	1357	1084	912	792	701	628	521	443	278	236
HZB2-3000	6208	6208	5880	5530	5119	4755	4413	3639	2702	2180	1621	1297	1092	945	840	750	625	533	335	285
HZB2-3850	7372	7372	7656	7040	6519	6045	5640	4669	3448	2798	2079	1668	1394	1213	1071	960	801	684	430	365

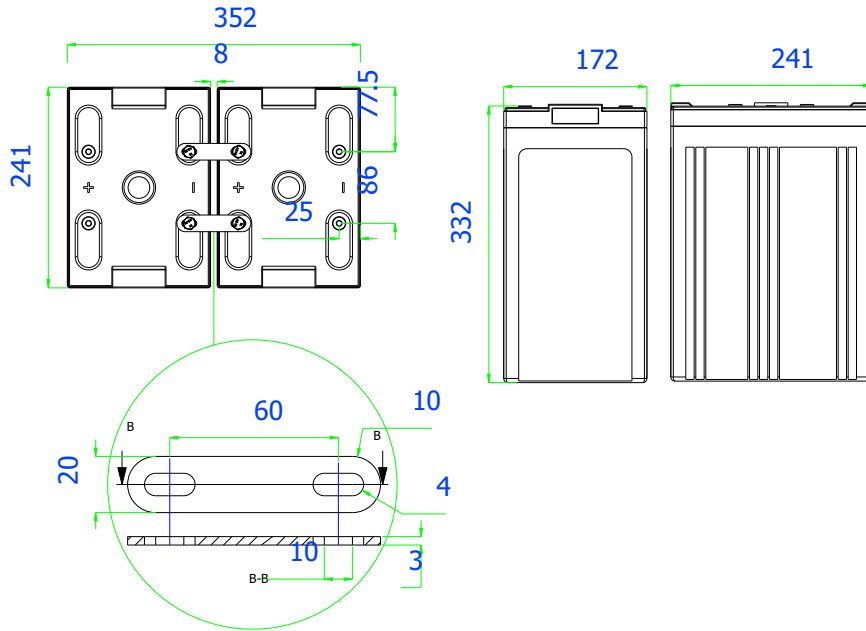
End of Discharge Voltage = 1.70								DISCHARGE IN WATTS PER CELL								20 - 25 °C				
Model	15'	20'	25'	30'	35'	40'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
HZB2-50	153	130	114	102	91.6	83.7	77.1	61.7	45.1	36.0	26.6	21.5	18.1	15.7	13.9	12.4	10.3	8.75	5.39	4.52
HZB2-100	312	262	229	204	183	167	154	125	91.6	73.3	54.0	43.7	36.7	32.0	28.3	25.4	21.1	17.9	11.1	9.39
HZB2-150	447	382	335	300	270	247	227	185	137	111	82.0	65.6	55.4	48.1	42.6	38.0	31.6	26.8	16.5	13.9
HZB2-200	511	446	406	375	344	318	294	241	180	147	109	87.8	73.8	63.8	56.5	50.4	42.0	35.8	22.2	18.6
HZB2-250	639	563	510	466	427	394	366	302	229	184	136	110	92.2	79.8	70.4	62.9	52.6	44.8	27.7	23.2
HZB2-300	776	677	610	566	517	477	444	369	273	220	164	133	112	96.5	85.4	76.4	63.5	53.8	33.2	27.9
HZB2-375	922	837	765	704	644	596	552	450	335	274	206	165	138	120	106	95.0	79.1	67.5	42.1	35.5
HZB2-400	1028	906	822	751	681	635	588	484	366	297	220	176	148	128	113	101	83.8	71.5	45.2	38.3
HZB2-450	1172	1041	941	862	792	734	676	559	412	334	247	199	167	146	129	115	95.5	81.3	51.0	43.3
HZB2-500-1	1279	1129	1022	946	872	810	751	612	455	368	274	220	186	161	143	127	106	90.0	55.8	47.2
HZB2-500-2	1279	1129	1022	946	872	810	751	612	455	368	274	220	186	161	143	127	106	90.0	55.8	47.2
HZB2-575	1457	1277	1181	1080	990	912	846	703	522	423	315	252	212	183	162	145	120	103	63.4	53.6
HZB2-600	1552	1375	1260	1143	1053	972	907	740	556	445	329	264	222	193	171	153	127	109	68.6	58.5
HZB2-625	1597	1405	1290	1176	1078	1002	928	766	572	463	339	273	230	200	177	158	132	113	71.2	60.3
HZB2-750	1843	1686	1547	1410	1294	1203	1114	915	688	556	410	329	278	242	214	191	158	135	84.9	72.1
HZB2-800	2046	1806	1673	1512	1396	1296	1196	979	725	588	437	353	297	258	229	202	169	144	90.6	76.9
HZB2-1000-1	2508	2217	2016	1848	1717	1601	1491	1236	914	740	549	440	370	321	285	256	212	181	113	96.1
HZB2-1000-2	2508	2217	2016	1848	1717	1601	1491	1236	914	740	549	440	370	321	285	256	212	181	113	96.1
HZB2-1250	3136	2785	2523	2320	2140	1989	1855	1520	1136	925	691	555	463	401	355	317	264	224	141	119
HZB2-1500	3104	3104	3084	2814	2587	2411	2224	1836	1370	1111	830	661	555	482	427	383	318	271	170	144
HZB2-1875	3686	3686	3686	3525	3234	3014	2800	2298	1717	1390	1039	832	695	602	533	478	398	339	213	180
HZB2-2000	5112	4530	4092	3761	3471	3213	2985	2467	1821	1472	1100	886	742	644	570	510	426	361	227	192
HZB2-2500	6256	5568	5122	4720	4377	4077	3773	3098	2294	1853	1384	1103	928	803	711	640	531	452	283	241
HZB2-3000	6208	6208	6120	5680	5256	4875	4520	3711	2756	2224	1661	1328	1115	964	854	765	637	544	342	290
HZB2-3850	7372	7372	7372	7237	6655	6165	5747	4762	3517	2854	2120	1697	1423	1233	1091	975	815	698	439	373

End of Discharge Voltage = 1.65								DISCHARGE IN WATTS PER CELL								20 - 25 °C					
Model	15'	20'	25'	30'	35'	40'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr	
HZB2-50	156	133	116	103	93.2	84.9	77.9	62.5	45.6	36.3	26.8	21.6	-	-	-	-	-	-	-	-	
HZB2-100	318	268	234	208	186	170	157	127	92.7	74.2	54.5	44.1	-	-	-	-	-	-	-	-	
HZB2-150	455	389	341	306	275	251	231	187	139	112	83.0	66.5	-	-	-	-	-	-	-	-	
HZB2-200	550	479	428	387	352	325	300	244	182	148	110	88.7	-	-	-	-	-	-	-	-	
HZB2-250	660	575	519	473	433	399	369	306	231	186	138	111	-	-	-	-	-	-	-	-	
HZB2-300	776	714	638	579	529	487	453	373	276	223	166	134	-	-	-	-	-	-	-	-	
HZB2-375	922	870	785	722	655	605	557	455	338	275	207	166	-	-	-	-	-	-	-	-	
HZB2-400	1088	954	842	769	699	647	599	491	369	300	223	178	-	-	-	-	-	-	-	-	
HZB2-450	1224	1080	974	884	811	750	695	573	419	340	251	202	-	-	-	-	-	-	-	-	
HZB2-500-1	1340	1182	1058	974	892	827	765	623	461	372	277	222	-	-	-	-	-	-	-	-	
HZB2-500-2	1340	1182	1058	974	892	827	765	623	461	372	277	222	-	-	-	-	-	-	-	-	
HZB2-575	1560	1353	1214	1114	1012	932	867	714	533	429	318	255	-	-	-	-	-	-	-	-	
HZB2-600	1552	1415	1272	1170	1077	998	925	754	565	454	334	268	-	-	-	-	-	-	-	-	
HZB2-625	1692	1482	1339	1210	1106	1020	943	777	577	468	343	276	-	-	-	-	-	-	-	-	
HZB2-750	1843	1734	1572	1443	1321	1227	1136	933	698	564	415	333	-	-	-	-	-	-	-	-	
HZB2-800	2160	1905	1714	1552	1416	1317	1218	994	737	597	443	357	-	-	-	-	-	-	-	-	
HZB2-1000-1	2608	2280	2066	1896	1753	1632	1523	1260	928	752	557	448	-	-	-	-	-	-	-	-	
HZB2-1000-2	2608	2280	2066	1896	1753	1632	1523	1260	928	752	557	448	-	-	-	-	-	-	-	-	
HZB2-1250	3244	2865	2568	2361	2172	2018	1879	1542	1150	936	698	561	-	-	-	-	-	-	-	-	
HZB2-1500	3104	3104	3104	2866	2645	2450	2279	1877	1397	1133	842	670	-	-	-	-	-	-	-	-	
HZB2-1875	3686	3686	3686	3592	3299	3056	2851	2340	1745	1412	1052	842	-	-	-	-	-	-	-	-	
HZB2-2000	5272	4675	4186	3830	3529	3273	3043	2506	1851	1500	1120	901	-	-	-	-	-	-	-	-	
HZB2-2500	6444	5704	5218	4786	4437	4127	3836	3150	2339	1890	1407	1123	-	-	-	-	-	-	-	-	
HZB2-3000	6208	6208	6208	5840	5392	4965	4600	3781	2801	2262	1679	1348	-	-	-	-	-	-	-	-	
HZB2-3850	7372	7372	7372	7372	6775	6285	5857	4853	3573	2900	2147	1720	-	-	-	-	-	-	-	-	

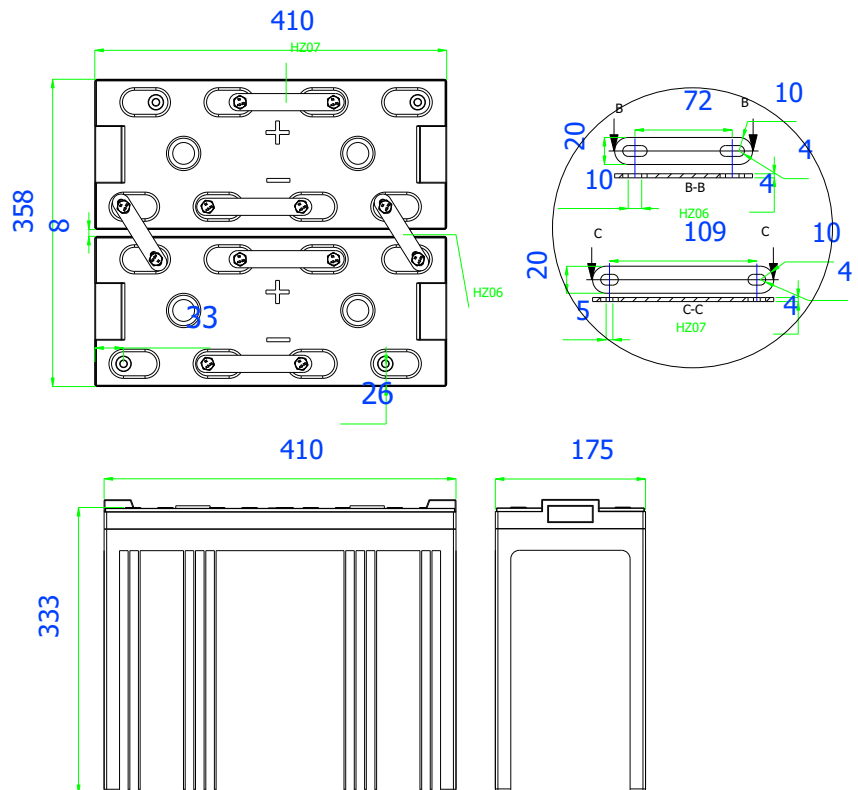
Battery Model	Dimensions (mm) & weight (Kg)				Dimensions (Inches) & weight (lbs)				No. of Terminals	Internal Resistance mOhms	Maximum Charge Current	Short Circuit Current
	Length	Width	Height	Weight	Length	Width	Height	Weight				
HZB2-50	161	50	166	3.2	6.34	1.97	6.54	7.1	2	2.1	10	509
HZB2-100	171	72	205	6.3	6.73	2.83	8.07	13.9	2	2	20	1080
HZB2-150	172	102	205	8.1	6.77	4.02	8.07	17.9	2	1.5	30	1550
HZB2-200	173	111	329	13.7	6.81	4.37	12.95	30.2	2	0.8	40	1600
HZB2-250	173	111	329	16	6.81	4.37	12.95	35.3	2	0.78	50	2000
HZB2-300	171	151	330	18.1	6.73	5.94	12.99	39.9	2	0.75	60	2400
HZB2-375	171	151	330	21.7	6.73	5.94	12.99	47.8	2	0.39	75	3000
HZB2-400	211	176	329	26.1	8.31	6.93	12.95	57.5	4	0.64	80	3200
HZB2-450	223	187	351	29.8	8.78	7.36	13.82	65.7	4	0.55	90	3600
HZB2-500-1	211	176	329	30.3	8.31	6.93	12.95	66.8	4	0.5	100	4000
HZB2-500-2	241	172	331	30.8	9.49	6.77	13.03	67.9	4	0.5	100	4000
HZB2-575	223	187	351	33.8	8.78	7.36	13.82	74.5	4	0.43	115	4600
HZB2-600	301	175	331	37.9	11.85	6.89	13.03	83.5	4	0.4	120	4800
HZB2-625	241	172	331	36.1	9.49	6.77	13.03	79.6	4	0.37	125	5000
HZB2-750	301	175	331	44.3	11.85	6.89	13.03	97.6	4	0.33	130	6000
HZB2-800	410	175	330	50.3	16.14	6.89	12.99	110.9	8	0.31	160	6400
HZB2-1000-1	410	175	330	60	16.14	6.89	12.99	132.2	8	0.25	200	7900
HZB2-1000-2	475	175	328	62.8	18.70	6.89	12.91	138.4	8	0.25	200	7900
HZB2-1250	475	175	328	70.2	18.70	6.89	12.91	154.7	8	0.21	250	10050
HZB2-1500	401	351	342	98.6	15.79	13.82	13.46	217.3	8	0.17	300	11950
HZB2-1875	401	351	342	115.5	15.79	13.82	13.46	254.6	8	0.15	375	15050
HZB2-2000	491	351	344	128.9	19.33	13.82	13.54	284.1	8	0.13	400	16100
HZB2-2500	491	351	344	144.9	19.33	13.82	13.54	319.4	8	0.11	500	19850
HZB2-3000	762	353	341	194.8	30.00	13.90	13.43	429.3	8	0.09	600	24100
HZB2-3850	762	353	341	245.3	30.00	13.90	13.43	540.6	8	0.07	770	30800

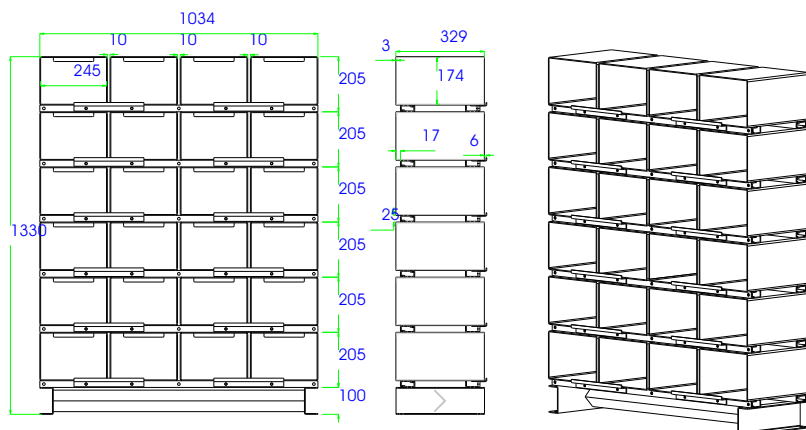
The graph shows extrapolated Service Life condition for Haze batteries at different ambient temperatures. Clearly higher ambient temperatures will reduce service life.





The sample battery layout drawings shown are available for all models showing terminal locations and intercell and inter battery connections. We can provide custom layouts to customers with an existing installation or footprint limitations. Battery spacing is flexible to allow greater or smaller spacing between the cells, indeed our standard connector has 10mm of travel allowing battery spacing from 3 to 13 mm. Close spacing is only recommended in temperature controlled environments with forced cooling. Connectors and terminal covers are supplied as standard.

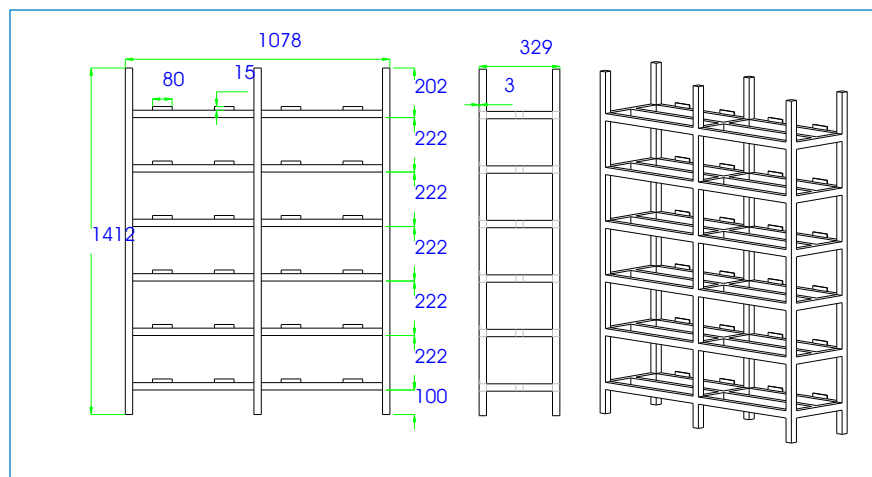




RACKING OPTIONS - Many racking options are available from Haze Battery Company. The favored style in Europe is the open rack, which can be designed to suit an existing foot print or minimised to fit the minimum possible space. Rack construction is from heavy duty steel section with welded joints or alternatively made in kit form for remote assembly.

A modular rack is also available for models HZB2-200 up to HZB2-1250. Box construction is from 3mm steel sheet, interlocking modules are slotted together and bolted in place, bolted front retainers hold the batteries in place resulting in a seismic zone 4 classified rack.

HZB2-1500 and above, due to their size and weight are more suited to vertical orientation - racking can be supplied to minimise the footprint by the use of multiple tiers. Battery retainers can be utilised to allow seismic zone 4 classification. Racks can be supplied with welded joints or as kit form for remote assembly.





Haze Battery Company Ltd

Product Range

4, 6 & 12 Volt AGM 1.3 to 230AH

6 & 12 Volt Gel 7.5 to 230AH

12 Volt Front Access AGM

12 Volt Front Access Gel

2 Volt AGM & Gel 50 to 3850AH

EV Gel

EV AGM

Marine Gel

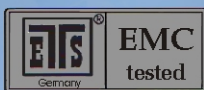
Solar

OPzV

OPzS

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

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