

# 2 VOLT GEL RANGE



# HAZE

Haze Battery Company Ltd

The Haze HZY - GEL range covers Ah capacities from 50Ah to 3850Ah (C<sub>10</sub>) with dimensions suitable for racking systems for maximum space utilisation, or vertical orientation.

Specially designed cables and connectors are available to suit.

GEL is especially suited for non-premium sites with medium to frequent outage rates and non-climate controlled environments, for less extreme temperature variations and reduced cyclic demands please consult the Haze HZB - AGM 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	Microporous Duroplastic
Active material	Very high purity lead
Case and cover	ABS (VO on request)
Charge Voltage	Float 2.27 - 2.30 VPC @20 °C Cycling 2.41 @20 °C Max. 2.7 VPC Max ripple 3.5% Charge V
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	Various types Epoxy sealed by extended mechanical paths
Torque setting	The recommended torque value for all types is 7-10 Nm
Cables	Insulated cables / connectors supplied on request.

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



## Applications

- Cycling / Float service
  - Residential
  - Telecommunications
  - Refrigeration
  - Photovoltaic
  - Solar
  - Wind
  - Engine Starting
  - Electric Vehicle
  - Water Pumping
  - Cathodic Protection
  - Boats
  - General Marine
  - Navigation Aids
- Many other deep cycle applications

## 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  $C_{20}/4$ .

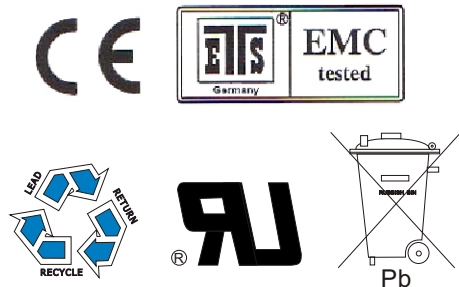
For cyclic use we specify a short constant current phase is added to the standard charge profile - consult Haze for more details.

## Gel Vs AGM

Each battery has its advantages and disadvantages, it is therefore important to choose the right battery for the application. Advantages of Gel Batteries:

- Full recovery from deep discharge, even when the battery is not recharged immediately.
- Ideal for repeat cycling daily use.
- Excellent performance over long discharges
- Good tolerance to higher temperature applications
- Suitable where mains power is unstable
- Zero stratification due to immobilized electrolyte
- No equalization charge necessary
- Reduced self-discharge
- Limiting design protects the positive plates to greatly improve cycle life
- Thicker plates for reduced grid corrosion and increased cycle life
- Improved charge acceptance due to low internal resistance
- High resistance to water loss with the right charging set up
- Ultra stable polymer separator with glass mat for increased performance
- High resistance to shorting due to superior mechanical strength of the polymer separator
- Increased tolerance to poor charging parameters
- Can be discharged even when full recharge has not been achieved, without loss of battery capacity

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



### Innovative Features

- Completely maintenance free, sealed
- Construction eliminates the need for watering
- Electrolyte will not stratify, equalization charge recommended but not compulsorily required
- Increased durability and deep cycle ability for heavy demand applications
- Special formation process
- Gelled thixotropic electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5 psi
- Multi-position usage
- Multi-cell container
- ABS Case and cover - V0 on request
- Low self discharge
- Utilising the latest in German technology
- FAA and IATA approved as non-hazardous
- Built to comply with IEC 896-2, DIN 43534, BS 6290 Pt4, Eurobat.



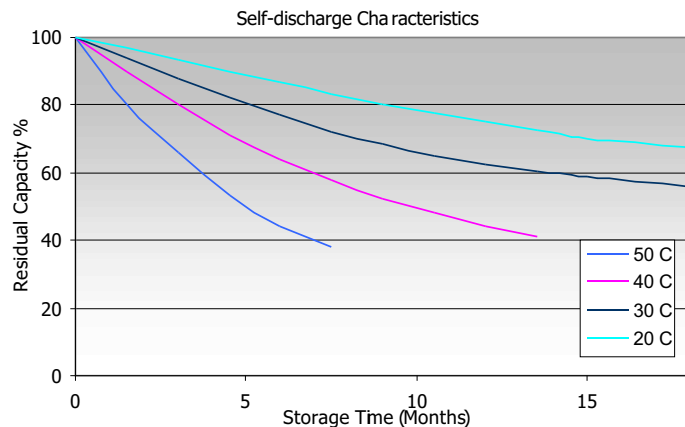
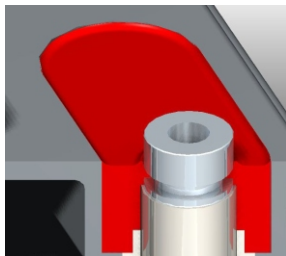
### Capacity temperature correction Factor to be applied to Data at 20 Degrees C

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

### Applications

- Float service
- Telecommunications
- Poor charging applications
- Wind
- Higher ambient temperature applications
- Road side cabinets
- Many other extreme applications

- Residential
- Refrigeration
- Frequent use applications
- Engine Starting
- Water Pumping
- Cathodic Protection







End of Discharge Voltage = 1.70					DISCHARGE CURRENT in A										20 - 25 °C			
Model	15'	20'	25'	30'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	12 hr	24 hr	48 hr	100 hr
HZY2-50	77.8	66.7	58.2	51.6	39.1	31.3	22.7	18.0	13.2	10.7	9.03	7.86	6.22	5.17	4.38	2.38	-	-
HZY2-100	159	134	117	104	78.8	63.1	45.8	36.6	27.1	21.9	18.4	16.1	12.7	10.6	8.97	4.80	-	-
HZY2-150	227	193	169	151	114	92.8	68.3	55.1	40.8	32.8	27.7	24.0	19.0	15.7	13.4	7.15	-	-
HZY2-200	260	227	206	190	151	123	91.4	73.7	54.4	43.8	36.9	32.0	25.5	21.1	17.9	9.53	-	-
HZY2-250	319	286	258	236	188	154	115	92.1	67.9	54.9	46.2	39.8	31.4	26.1	22.2	11.9	-	-
HZY2-300	388	341	307	279	223	183	136	109	81.1	65.4	55.0	47.6	37.6	31.3	26.7	14.2	-	-
HZY2-375	479	423	385	348	279	230	171	138	102	81.7	68.5	59.0	46.5	38.6	32.9	17.6	-	-
HZY2-400	519	457	414	378	300	246	183	147	110	88.1	74.2	64.2	50.5	42.2	36.1	19.3	-	-
HZY2-450	591	523	468	425	335	277	205	166	122	98.5	83.2	72.2	57.2	47.5	40.4	21.5	-	-
HZY2-500-1	661	579	523	472	374	306	228	184	136	110	92.8	80.1	63.6	52.9	45.0	23.9	-	-
HZY2-500-2	661	579	523	472	374	306	228	184	136	110	92.8	80.1	63.6	52.9	45.0	23.9	-	-
HZY2-575	732	646	589	539	428	349	258	210	157	126	106	91.8	73.0	60.5	51.5	27.7	-	-
HZY2-600	762	685	621	568	449	371	274	221	164	132	111	95.7	75.5	62.6	53.6	28.8	-	-
HZY2-625	802	710	643	582	458	379	283	230	171	137	115	100	78.7	65.6	56.0	30.0	-	-
HZY2-750	960	852	779	710	563	461	342	276	205	166	140	121	96.0	79.8	67.9	35.9	-	-
HZY2-800	1028	913	828	756	600	491	364	295	219	176	149	129	102	84.3	71.4	38.3	-	-
HZY2-1000-1	1280	1134	1039	945	744	610	455	367	275	221	186	161	127	106	90.6	47.8	-	-
HZY2-1000-2	1280	1134	1039	945	744	610	455	367	275	221	186	161	127	106	90.6	47.8	-	-
HZY2-1250	1568	1392	1253	1150	919	758	565	460	344	277	234	201	159	133	113	59.7	-	-
HZY2-1500	1876	1686	1529	1392	1105	911	681	552	413	332	280	241	190	158	134	71.3	-	-
HZY2-1875	2376	2118	1910	1746	1391	1142	854	690	517	416	349	301	238	198	169	89.8	-	-
HZY2-2000	2512	2220	2009	1848	1484	1224	906	736	545	439	371	320	252	209	178	95.3	-	-
HZY2-2500	3184	2832	2551	2336	1863	1537	1141	920	684	553	466	403	317	263	224	120	-	-
HZY2-3000	3860	3408	3060	2786	2236	1841	1371	1104	823	663	560	483	380	316	269	144	-	-
HZY2-3850	4760	4227	3818	3494	2808	2331	1749	1418	1054	850	712	617	486	404	344	185	-	-

End of Discharge Voltage = 1.65					DISCHARGE CURRENT in A										20 - 25 °C			
Model	15'	20'	25'	30'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	12 hr	24 hr	48 hr	100 hr
HZY2-50	80.1	68.6	59.8	53.0	40.0	32.0	23.1	18.3	13.5	10.9	-	-	-	-	-	-	-	-
HZY2-100	163	138	120	107	80.3	64.5	46.8	37.5	27.6	22.3	-	-	-	-	-	-	-	-
HZY2-150	234	198	175	155	116	94.6	69.5	56.2	41.4	33.1	-	-	-	-	-	-	-	-
HZY2-200	275	238	214	196	154	126	92.4	74.7	55.1	44.3	-	-	-	-	-	-	-	-
HZY2-250	332	296	268	243	193	157	116	93.3	68.6	55.6	-	-	-	-	-	-	-	-
HZY2-300	409	356	318	288	229	188	139	111	82.4	66.4	-	-	-	-	-	-	-	-
HZY2-375	506	445	401	363	288	236	173	140	103	82.5	-	-	-	-	-	-	-	-
HZY2-400	546	477	427	391	308	252	186	151	112	89.6	-	-	-	-	-	-	-	-
HZY2-450	618	545	485	437	342	283	209	169	124	100	-	-	-	-	-	-	-	-
HZY2-500-1	688	600	538	489	382	311	231	187	139	112	-	-	-	-	-	-	-	-
HZY2-500-2	688	600	538	489	382	311	231	187	139	112	-	-	-	-	-	-	-	-
HZY2-575	772	675	610	556	438	357	264	215	159	128	-	-	-	-	-	-	-	-
HZY2-600	800	713	645	588	462	379	281	226	166	134	-	-	-	-	-	-	-	-
HZY2-625	832	728	658	596	468	386	288	234	174	140	-	-	-	-	-	-	-	-
HZY2-750	1004	891	804	730	575	472	347	282	209	169	-	-	-	-	-	-	-	-
HZY2-800	1060	936	853	778	616	502	371	300	222	179	-	-	-	-	-	-	-	-
HZY2-1000-1	1332	1173	1065	964	761	622	462	373	279	224	-	-	-	-	-	-	-	-
HZY2-1000-2	1332	1173	1065	964	761	622	462	373	279	224	-	-	-	-	-	-	-	-
HZY2-1250	1624	1434	1289	1180	936	770	572	465	347	280	-	-	-	-	-	-	-	-
HZY2-1500	1944	1731	1574	1426	1132	930	695	565	421	338	-	-	-	-	-	-	-	-
HZY2-1875	2464	2172	1954	1782	1415	1160	871	704	526	422	-	-	-	-	-	-	-	-
HZY2-2000	2604	2292	2074	1900	1515	1246	921	748	555	447	-	-	-	-	-	-	-	-
HZY2-2500	3268	2907	2630	2399	1896	1567	1163	938	696	562	-	-	-	-	-	-	-	-
HZY2-3000	4008	3514	3151	2872	2279	1881	1393	1123	836	673	-	-	-	-	-	-	-	-
HZY2-3850	4932	4341	3910	3558	2853	2363	1775	1436	1066	860	-	-	-	-	-	-	-	-

**IMPORTANT NOTE:** GEL batteries do not deliver full capacity on the first cycle, in fact they take approx. 15 to 20 cycles to reach full capacity. This reduced initial capacity effect is due to the extremely durable crystal structure employed in the Haze GEL range. The capacity quoted in this catalogue is full capacity.



End of Discharge Voltage = 1.70					DISCHARGE IN WATTS PER CELL										20 - 25 °C			
Model	15'	20'	25'	30'	45'	1 hr	90'	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	12 hr	24 hr	48 hr	100 hr
HZY2-50	141	122	107	96.0	72.8	59.2	43.5	34.8	25.8	20.9	17.8	15.5	12.4	10.3	8.82	4.80	-	-
HZY2-100	284	246	217	194	148	120	87.4	70.5	52.6	42.7	36.3	31.5	25.0	20.8	17.7	9.50	-	-
HZY2-150	404	351	310	278	212	175	131	106	79.5	64.3	54.5	47.2	37.3	31.2	26.7	14.6	-	-
HZY2-200	470	419	381	350	280	233	175	142	106	86.0	72.6	63.2	49.9	41.5	35.5	19.1	-	-
HZY2-250	578	520	475	435	347	288	218	178	132	107	90.8	79.0	62.9	52.5	44.8	23.9	-	-
HZY2-300	698	623	561	515	415	345	260	212	159	129	109	94.8	74.8	62.4	53.1	28.4	-	-
HZY2-375	872	778	710	649	520	435	326	266	198	161	136	117	92.9	77.4	65.9	35.4	-	-
HZY2-400	939	834	756	693	553	463	349	285	214	172	145	126	101	84.0	71.5	38.3	-	-
HZY2-450	1084	951	855	790	628	520	393	321	238	193	164	143	114	94.9	80.8	42.7	-	-
HZY2-500-1	1172	1047	955	879	699	582	436	356	266	215	183	159	126	106	90.3	47.8	-	-
HZY2-500-2	1172	1047	955	879	699	582	436	356	266	215	183	159	126	106	90.3	47.8	-	-
HZY2-575	1340	1188	1078	988	795	662	495	406	305	247	208	181	144	121	103	54.7	-	-
HZY2-600	1416	1265	1147	1050	846	705	524	427	319	259	218	190	151	126	108	58.4	-	-
HZY2-625	1420	1287	1171	1072	872	728	546	444	333	270	227	197	157	132	113	61.3	-	-
HZY2-750	1763	1566	1423	1308	1047	867	651	532	397	322	273	238	188	158	134	71.0	-	-
HZY2-800	1832	1662	1522	1390	1116	933	700	570	427	346	292	252	200	167	142	76.8	-	-
HZY2-1000-1	2312	2061	1869	1724	1395	1160	873	710	533	433	365	318	253	211	180	96.9	-	-
HZY2-1000-2	2312	2061	1869	1724	1395	1160	873	710	533	433	365	318	253	211	180	96.9	-	-
HZY2-1250	2908	2583	2336	2140	1731	1440	1085	886	670	544	459	398	317	265	225	120	-	-
HZY2-1500	3376	3087	2844	2608	2090	1741	1308	1066	797	645	545	476	380	318	270	143	-	-
HZY2-1875	4256	3858	3511	3234	2616	2168	1631	1332	1007	816	687	596	474	399	339	180	-	-
HZY2-2000	4588	4158	3782	3490	2793	2306	1739	1422	1065	862	729	636	503	416	355	189	-	-
HZY2-2500	5644	5079	4675	4296	3455	2871	2191	1779	1333	1084	919	798	631	526	448	238	-	-
HZY2-3000	6944	6251	5712	5234	4187	3505	2632	2135	1611	1301	1096	952	754	626	533	288	-	-
HZY2-3850	8720	7830	7128	6560	5333	4450	3359	2740	2053	1663	1409	1225	975	817	698	376	-	-

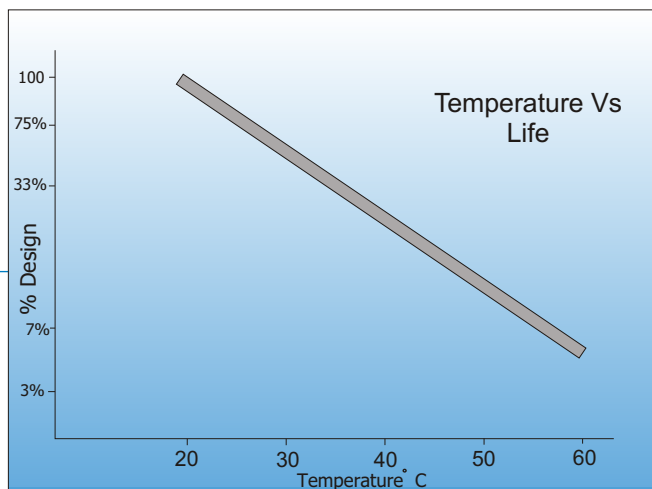
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HZY2-50	143	125	109	97.0	74.4	60.2	44.3	35.5	26.3	21.3	-	-	-	-	-	-	-	-
HZY2-100	292	251	222	198	151	122	88.7	71.3	53.1	43.0	-	-	-	-	-	-	-	-
HZY2-150	414	359	317	283	218	177	133	108	80.4	65.0	-	-	-	-	-	-	-	-
HZY2-200	494	434	394	359	287	237	178	144	107	86.9	-	-	-	-	-	-	-	-
HZY2-250	604	541	492	449	356	293	221	180	134	109	-	-	-	-	-	-	-	-
HZY2-300	718	639	578	530	425	351	265	216	162	131	-	-	-	-	-	-	-	-
HZY2-375	907	804	734	668	531	443	333	271	202	163	-	-	-	-	-	-	-	-
HZY2-400	973	862	779	712	564	471	354	290	217	175	-	-	-	-	-	-	-	-
HZY2-450	1144	989	890	812	642	530	401	327	241	196	-	-	-	-	-	-	-	-
HZY2-500-1	1212	1080	979	896	711	590	440	360	270	218	-	-	-	-	-	-	-	-
HZY2-500-2	1212	1080	979	896	711	590	440	360	270	218	-	-	-	-	-	-	-	-
HZY2-575	1396	1236	1114	1012	815	678	507	415	310	251	-	-	-	-	-	-	-	-
HZY2-600	1468	1302	1174	1070	863	718	537	434	324	263	-	-	-	-	-	-	-	-
HZY2-625	1488	1320	1198	1098	893	743	555	453	338	275	-	-	-	-	-	-	-	-
HZY2-750	1816	1614	1465	1340	1072	885	663	541	402	328	-	-	-	-	-	-	-	-
HZY2-800	1912	1729	1565	1430	1145	954	715	580	433	350	-	-	-	-	-	-	-	-
HZY2-1000-1	2384	2124	1922	1760	1424	1180	885	720	541	440	-	-	-	-	-	-	-	-
HZY2-1000-2	2384	2124	1922	1760	1424	1180	885	720	541	440	-	-	-	-	-	-	-	-
HZY2-1250	3012	2657	2395	2184	1756	1458	1099	898	677	552	-	-	-	-	-	-	-	-
HZY2-1500	3480	3174	2904	2666	2133	1776	1331	1084	807	653	-	-	-	-	-	-	-	-
HZY2-1875	4400	3966	3600	3293	2655	2207	1667	1360	1026	831	-	-	-	-	-	-	-	-
HZY2-2000	4696	4254	3847	3554	2840	2347	1771	1442	1081	876	-	-	-	-	-	-	-	-
HZY2-2500	5864	5247	4759	4391	3524	2933	2241	1814	1356	1100	-	-	-	-	-	-	-	-
HZY2-3000	7172	6456	5870	5348	4267	3571	2667	2171	1629	1318	-	-	-	-	-	-	-	-
HZY2-3850	9080	8130	7320	6720	5427	4530	3427	2793	2083	1688	-	-	-	-	-	-	-	-

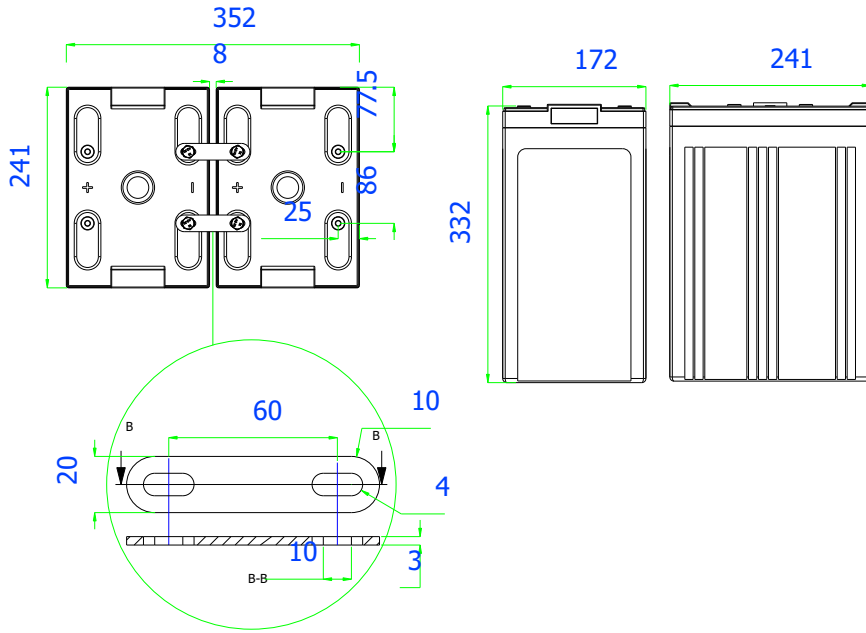
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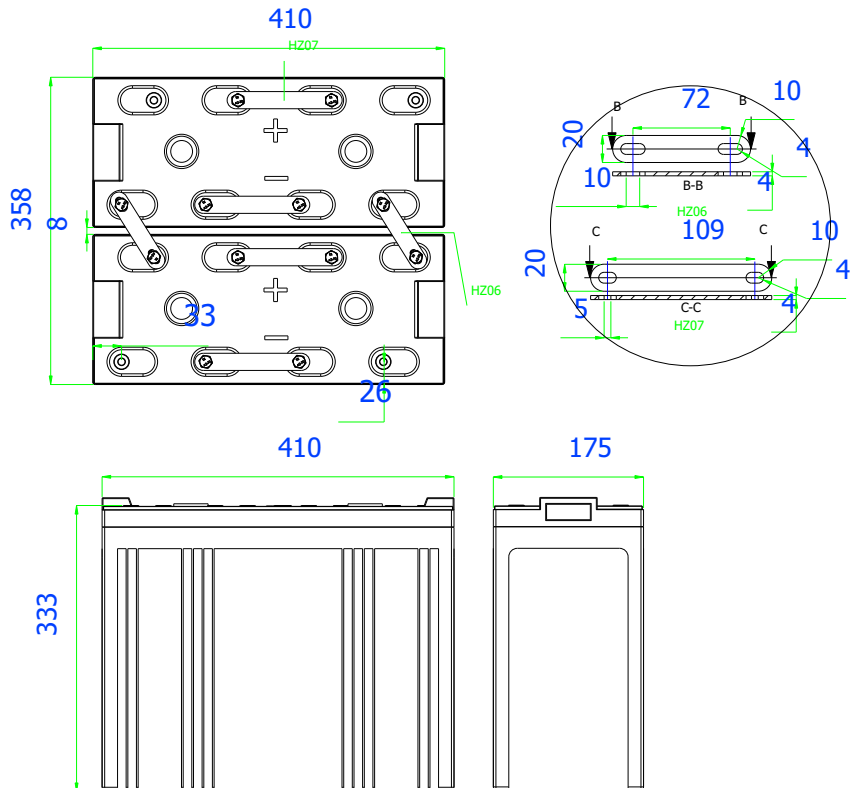
Battery Model	Dimensions (mm) & weight (Kg)				Dimensions (Inches) & weight (lbs)				No. of Terminals	Internal Resistance mOhms	Maximum Charge Current	Short Circuit Current
	Length	Width	Height	Weight	Length	Width	Height	Weight				
HZY2-50	161	50	166	3.1	6.34	1.97	6.54	6.9	2	1.13	10	509
HZY2-100	171	72	205	6.4	6.73	2.83	8.07	14.2	2	0.6	20	1080
HZY2-150	172	102	205	8.2	6.77	4.02	8.07	18.1	2	0.6	30	1550
HZY2-200	173	111	329	14	6.81	4.37	12.95	30.9	2	0.61	40	1600
HZY2-250	173	111	329	16.3	6.81	4.37	12.95	36.0	2	0.57	50	2000
HZY2-300	171	151	330	18.7	6.73	5.94	12.99	41.3	2	0.55	60	2400
HZY2-375	171	151	330	21.8	6.73	5.94	12.99	48.2	2	0.46	75	3000
HZY2-400	211	176	329	26.2	8.31	6.93	12.95	57.9	4	0.52	80	3200
HZY2-450	223	187	351	30.3	8.78	7.36	13.82	67.0	4	0.48	90	3600
HZY2-500-1	211	176	329	32	8.31	6.93	12.95	70.7	4	0.46	100	4000
HZY2-500-2	241	172	331	30.9	9.49	6.77	13.03	68.3	4	0.46	100	4000
HZY2-575	223	187	351	36	8.78	7.36	13.82	79.6	4	0.46	115	4600
HZY2-600	301	175	331	38.8	11.85	6.89	13.03	85.7	4	0.49	120	4800
HZY2-625	241	172	331	37.2	9.49	6.77	13.03	82.2	4	0.4	125	5000
HZY2-750	301	175	331	45.3	11.85	6.89	13.03	100.1	4	0.32	130	6000
HZY2-800	410	175	330	52	16.14	6.89	12.99	114.9	8	0.3	160	6400
HZY2-1000-1	410	175	330	60.9	16.14	6.89	12.99	134.6	8	0.23	200	7900
HZY2-1000-2	475	175	328	64.6	18.70	6.89	12.91	142.8	8	0.23	200	7900
HZY2-1250	475	175	328	71.6	18.70	6.89	12.91	158.2	8	0.23	250	10050
HZY2-1500	401	351	342	100.3	15.79	13.82	13.46	221.7	8	0.2	300	11950
HZY2-1875	401	351	342	118	15.79	13.82	13.46	260.8	8	0.2	375	15050
HZY2-2000	491	351	344	133	19.33	13.82	13.54	293.9	8	0.2	400	16100
HZY2-2500	491	351	344	149.5	19.33	13.82	13.54	330.4	8	0.2	500	19850
HZY2-3000	762	353	341	203.3	30.00	13.90	13.43	449.3	8	0.2	600	24100
HZY2-3850	762	353	341	256.1	30.00	13.90	13.43	566.0	8	0.2	770	30800

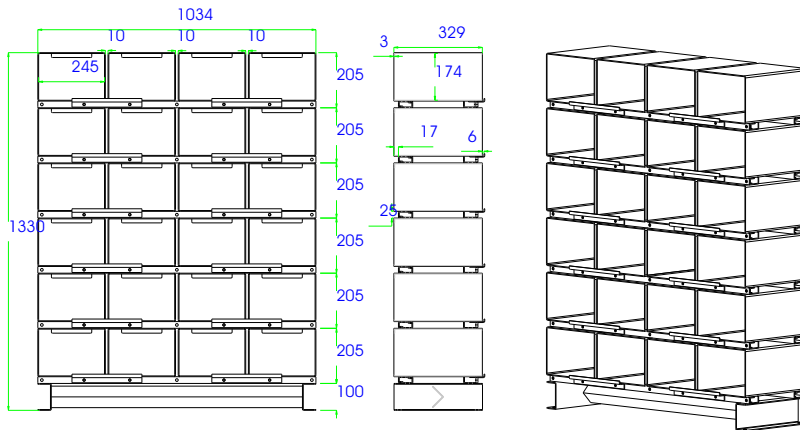
The graph shows extrapolated Service Life condition for Haze batteries at different ambient temperatures. Clearly higher ambient temperatures will reduce service life.





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.

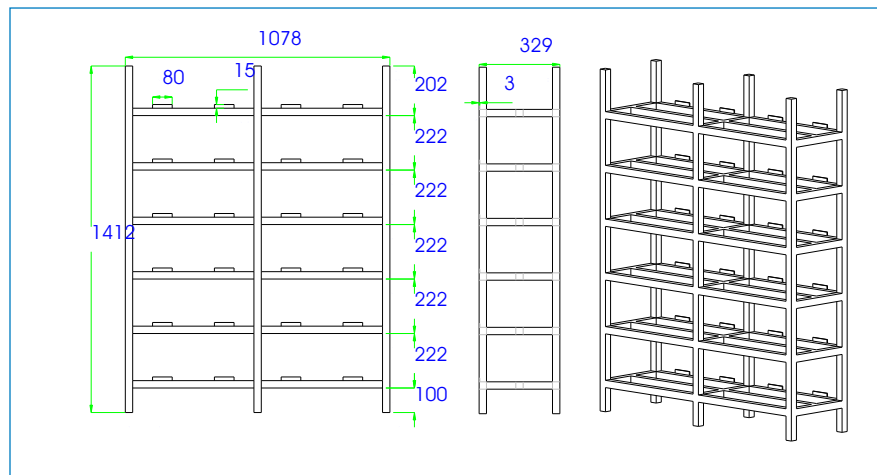




**RACKING OPTIONS** - Many racking options are available from Haze Battery Company. The favored style in Europe is the open rack, which can be designed to suit an existing foot print or minimised to fit the minimum possible space. Rack construction is from heavy duty steel section with welded joints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

A modular rack is also available for models HZY2-200 up to HZY2-1250. 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.

HZY2-1500 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.





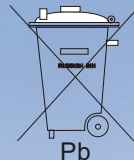
## Haze Battery Company Ltd

### 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](http://www.hazebattery.com)  
E mail [sales@hazebattery.com](mailto:sales@hazebattery.com)

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