



POWER-PLUS

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**Sealed Lead Acid 2 Volt Bloc
Gelled Electrolyte Range**

CONSTRUCTION - Gel battery construction is as shown in the diagram. The positive and negative grids are cast from a calcium/tin lead alloy to reduce grid growth and corrosion. The active material is manufactured from a high purity lead (99.9999%) to minimize the negative effects of impurities.

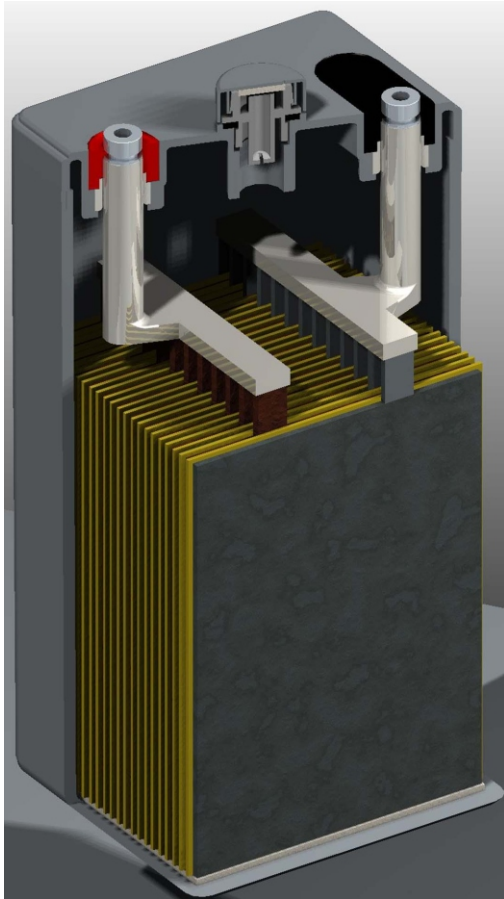
Separator is manufactured by a world leader in the field, utilizing the latest German technology. The base material is a microporous duroplastic exhibiting excellent high temperature stability and mechanical strength, resulting in very good resistance to vibration and mechanical shock. The integrity of the battery will be maintained under extreme conditions.

The purpose of the separator is to maintain a constant distance between the positive and negative plates, totally eliminating the possibility of short circuits whilst allowing the active materials to fully react with the gelled electrolyte.

The separator also has an open construction, which allows little resistance to the flow of the electrolyte during filling.

A thin layer (typically 0.4mm) of non-woven glass mat is an integral part of the separator and is placed against the positive plate for improved surface contact.

A compression platform at the bottom of the cell allows expansion and contraction of the plates.



Gel construction with case removed and cover cut away to show internal battery parts.

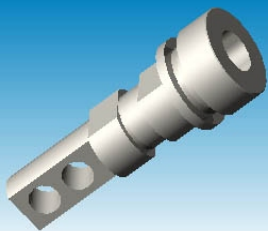
ELECTROLYTE FILLING - Gelled electrolyte is introduced to the cell by means of custom-built vacuum filling machines it is vitally important that the electrolyte achieves full penetration of the separator and plates therefore; vacuum cycling is utilized after the filling process. To ensure each cell has the correct amount of gel, they are first overfilled, the extra gel is then removed. The battery design and construction negates the need for electrolyte addition and the battery remains maintenance free throughout its design life.

SAFETY RELEASE VALVE- The battery will operate above atmospheric pressure under normal operating conditions, however the maximum pressure is governed by the safety release valve. Open is activated by pressures in excess of approx. 2 psi (14 Kpa), resealing at approx 1.2 psi (8.4 Kpa).

Flame Arrester - All models above and including HZB2-150 have a built in flame arrester in the valve assembly.

GAS RECOMBINATION - The gasses generated during normal operation of the battery are internally recombined. In fact more than 99% of the gas achieves recombination.

TERMINAL CONSTRUCTION - The contact quality between the insert terminal and the lead post is of vital importance during short duration / high Amp discharges. Elevated terminal temperatures are the result of poor contact, eventually causing seal degradation and electrolyte leaks. Interlink design and assembly technique for terminal casting ensures trouble free operation for the design life of the battery.



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

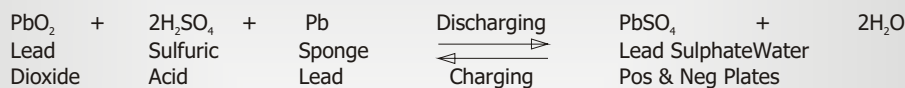


Applications

- Cycling / Float service
 - Residential
 - Telecommunications
 - Refrigeration
 - Photovoltaic
 - Solar
 - Wind
 - Engine Starting
 - Wheelchair
 - Electric Vehicle
 - Floor Cleaning Machines
 - Water Pumping
 - Golf Caddy
 - Portable Medical Equipment
 - Cathodic Protection
 - Boats
 - General Marine
 - Navigation Aids
- Many other deep cycle applications

Discharge Time	Capacity temperature correction Factor to be applied to Data at 20 Degrees C									
	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C	
5 minutes to 59 minutes	0.8	0.86	0.91	0.96	1	1.037	1.063	1.085	1.1	
1 Hour to 100 Hours	0.86	0.9	0.93	0.97	1	1.028	1.05	1.063	1.07	

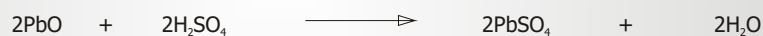
CHEMICAL REACTION- The chemical reaction for the Discharge / Recharge process is represented by the following formula:



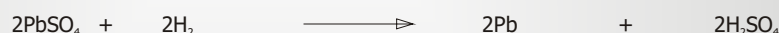
Under normal float charge conditions the oxygen passes through the separator from the positive to the negative plate where it reacts with the negative active material to form lead oxide.



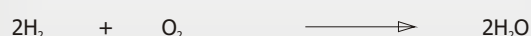
In the acid conditions the lead oxide reacts with the sulfuric acid to form lead sulphate.

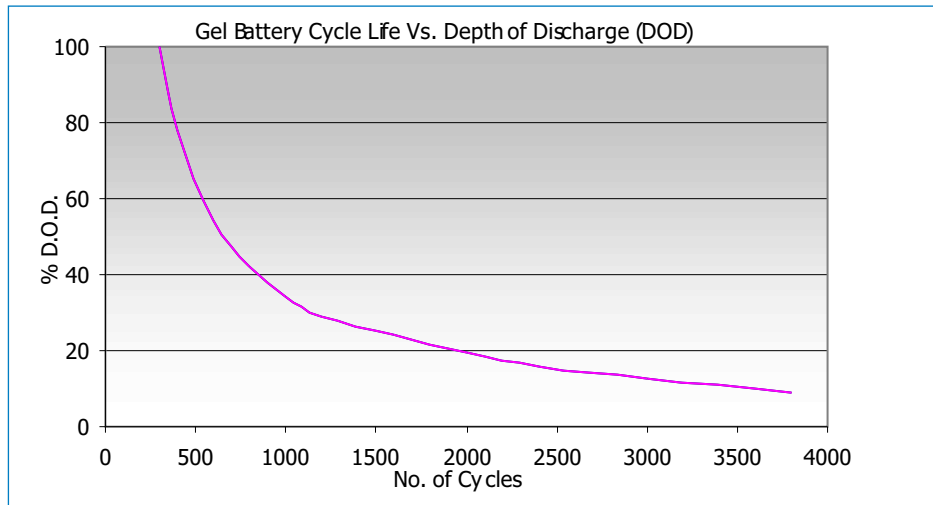


The lead sulphate formed on the negative is then reduced to lead and sulfuric acid by the evolving hydrogen.



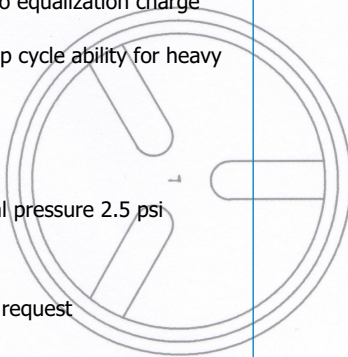
If the equations are resolved and like terms cancelled out on both sides of the equation the result is:





Innovative Features

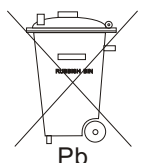
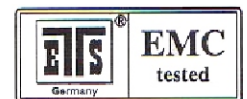
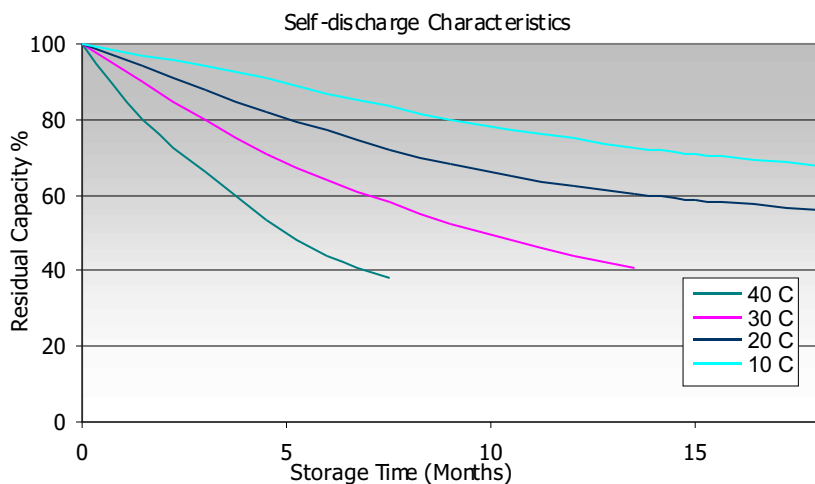
- Completely maintenance free, sealed
- Construction eliminates the need for watering
- Electrolyte will not stratify, no equalization charge required
- Increased durability and deep cycle ability for heavy demand applications
- Fully tank formed plates
- Gelled thixotropic electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5 psi
- Multi-position usage
- Multi-cell container
- ABS Case and cover - VO on request
- Low self discharge
- Utilising the latest in German technology
- FAA and IATA approved as non-hazardous



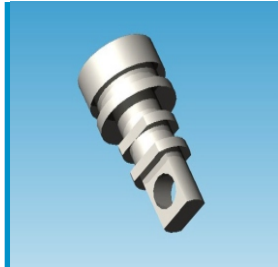
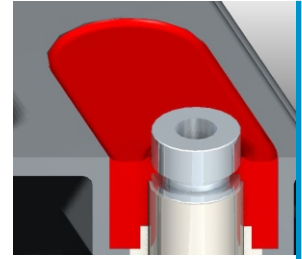
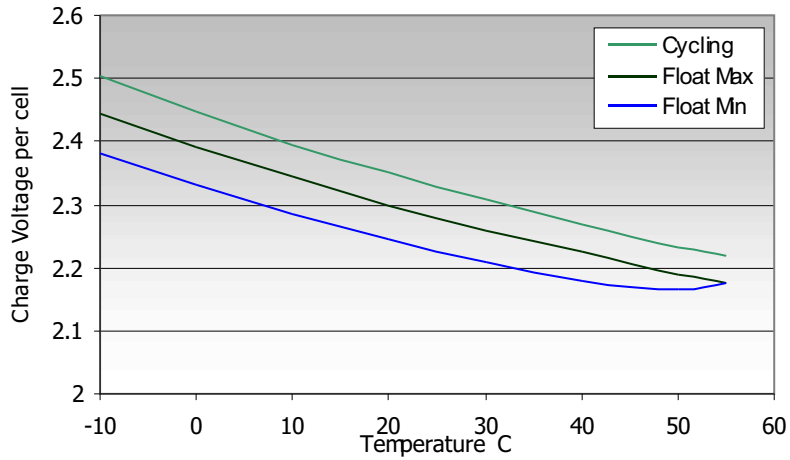
Specifications

Nominal Voltage	2 Volts
Design Life	18 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 @25 °C Cycling 2.35 @25 °C
Electrolyte	Max. 2.4 VPC Max ripple 0.05C (A) 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 5-7 Nm
Cables	Insulated cables / connectors supplied on request.

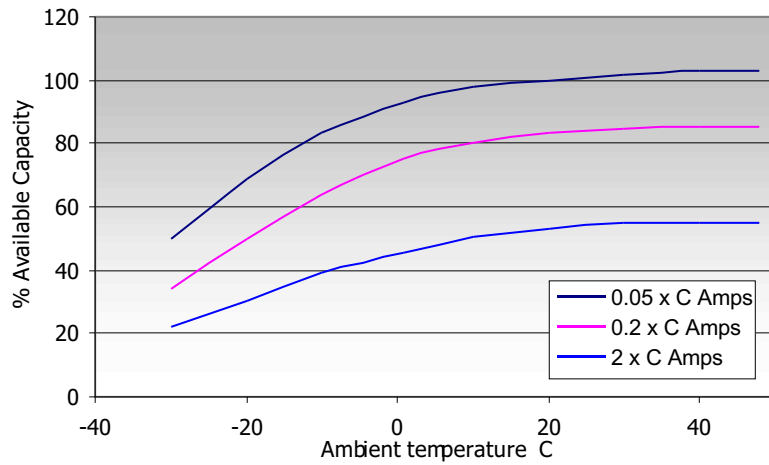
Interlink keenly encourages environmental awareness; PLEASE follow guidelines for the recycling /disposal of lead.



Relationship Between Charge Voltage and Temperature



Capacity Vs Ambient Temperature



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 $C_{20}/4$.

Battery Model	Time in Minutes - Amps to 1.80 VPC						
	5	10	15	30	45	60	90
PG 2-50	114	87.4	73.6	48.8	37.0	30.4	20.7
PG 2-100	228	175	147	97.7	74.0	60.8	41.4
PG 2-150	326	250	211	140	106	86.9	62.1
PG 2-200	304	267	224	175	139	116	82.8
PG 2-250	380	333	281	219	174	145	103
PG 2-300	456	399	337	262	208	174	124
PG 2-375	570	500	421	327	260	218	156
PG 2-400	608	533	449	350	277	232	165
PG 2-450	684	600	505	393	312	261	186
PG 2-500	760	666	561	437	347	290	207
PG 2-575	867	759	639	498	396	331	236
PG 2-600	912	799	673	525	416	348	248
PG 2-625	951	833	702	546	433	362	259
PG 2-750	1140	999	842	656	521	435	310
PG 2-800	1216	1066	898	699	555	464	331
PG 2-1000	1520	1332	1122	873	694	580	414
PG 2-1250	1900	1665	1403	1092	868	725	518
PG 2-1500	2280	1998	1684	1310	1041	869	621
PG 2-1875	2812	2464	2076	1616	1283	1073	766
PG 2-2000	3040	2664	2245	1747	1387	1159	828
PG 2-2500	3800	3331	2806	2185	1734	1449	1034
PG 2-3000	4560	3997	3367	2621	2081	1739	1242
PG 2-3850	5853	5129	4321	3364	2671	2232	1593

Battery Model	Time in Hours			
	2	3	4	5
PG 2-50	162	12.1	9.56	8.00
PG 2-100	32.4	24.3	19.1	16.0
PG 2-150	48.8	36.5	28.7	24.1
PG 2-200	65.3	48.9	38.4	32.2
PG 2-250	81.6	61.0	48.0	40.2
PG 2-300	97.9	73.2	57.5	48.2
PG 2-375	122	91.6	72.0	60.3
PG 2-400	131	98.0	76.6	64.2
PG 2-450	147	110	86.2	72.2
PG 2-500	163	122	95.9	80.4
PG 2-575	186	139	110	91.6
PG 2-600	196	146	115	96.4
PG 2-625	204	152	120	100
PG 2-750	245	183	144	121
PG 2-800	261	195	154	129
PG 2-1000	325	243	192	160
PG 2-1250	407	305	240	201
PG 2-1500	489	366	288	241
PG 2-1875	612	458	360	301
PG 2-2000	652	488	384	322
PG 2-2500	815	610	479	402
PG 2-3000	978	732	575	482
PG 2-3850	1256	940	739	619

Battery Model	Time in Minutes - Amps to 1.75 VPC						
	5	10	15	30	45	60	90
PG 2-50	118	90.5	76.3	50.6	38.4	31.5	21.1
PG 2-100	240	185	155	103.2	78.1	64.2	43.1
PG 2-150	344	264	223	148	112	91.9	64.6
PG 2-200	358	295	255	186	148	124	86.5
PG 2-250	447	369	318	232	184	154	108
PG 2-300	536	441	382	278	221	184	130
PG 2-375	669	551	477	347	275	230	161
PG 2-400	713	588	509	370	294	246	173
PG 2-450	802	662	572	417	331	276	194
PG 2-500	893	736	638	463	368	308	216
PG 2-575	1018	839	726	528	419	351	246
PG 2-600	1071	883	765	556	442	369	259
PG 2-625	1115	920	796	579	460	384	270
PG 2-750	1338	1103	955	695	552	461	324
PG 2-800	1428	1178	1019	741	588	492	346
PG 2-1000	1784	1471	1273	926	735	615	432
PG 2-1250	2230	1839	1592	1158	919	768	540
PG 2-1500	2672	2203	1906	1387	1102	920	647
PG 2-1875	3346	2759	2387	1737	1379	1152	810
PG 2-2000	3570	2944	2547	1853	1472	1229	828
PG 2-2500	4462	3678	3183	2316	1840	1536	1079
PG 2-3000	5354	4415	3821	2780	2207	1844	1295
PG 2-3850	6872	5666	4904	3567	2833	2366	1663

Battery Model	Time in Hours			
	2	3	4	5
PG 2-50	17.3	12.9	10.16	8.51
PG 2-100	34.5	25.9	20.3	17.1
PG 2-150	51.9	38.8	30.5	25.6
PG 2-200	69.4	52.0	40.9	34.2
PG 2-250	86.8	64.9	51.1	42.8
PG 2-300	104	77.9	61.2	51.3
PG 2-375	130	97.4	76.6	64.2
PG 2-400	139	104	81.5	68.3
PG 2-450	156	117	91.7	76.8
PG 2-500	174	130	102	85.6
PG 2-575	198	148	117	97.5
PG 2-600	208	156	122	103
PG 2-625	216	162	127	106
PG 2-750	260	195	153	129
PG 2-800	278	207	164	137
PG 2-1000	346	259	204	171
PG 2-1250	433	324	255	214
PG 2-1500	520	389	307	256
PG 2-1875	650	487	383	320
PG 2-2000	693	519	409	342
PG 2-2500	867	649	510	428
PG 2-3000	1040	779	612	513
PG 2-3850	1335	1000	786	659

Battery Model	Time in Minutes - Amps to 1.67 VPC					
	5	10	15	30	45	60
PG 2-50	105	87.3	83.6	52.0	39.2	32.0
PG 2-100	214	178	170	106.0	80.0	65.2
PG 2-150	306	255	244	152	115	93.4
PG 2-200	399	341	283	193	151	125
PG 2-250	498	427	354	240	189	156
PG 2-300	596	511	424	288	227	187
PG 2-375	746	639	530	360	283	234
PG 2-400	795	682	566	383	302	250
PG 2-450	894	766	636	432	338	280
PG 2-500	995	853	708	480	377	313
PG 2-575	1134	972	807	548	430	356
PG 2-600	1193	1023	849	576	452	374
PG 2-625	1243	1066	884	600	471	390
PG 2-750	1491	1278	1061	719	565	468
PG 2-800	1592	1364	1133	768	603	500
PG 2-1000	1988	1704	1415	960	754	624
PG 2-1250	2486	2130	1768	1200	942	781
PG 2-1500	2978	2553	2119	1437	1129	935
PG 2-1875	3729	3196	2653	1800	1413	1170
PG 2-2000	3978	3410	2831	1920	1508	1249
PG 2-2500	4972	4262	3537	2399	1885	1561
PG 2-3000	5967	5114	4245	2879	2262	1873
PG 2-3850	7658	6564	5448	3695	2902	2404

Battery Model	Time in Hours			
	2	3	4	5
PG 2-50	17.6	13.2	10.39	8.68
PG 2-100	35.9	26.9	21.2	17.8
PG 2-150	54.0	40.4	31.8	26.6
PG 2-200	72.3	54.1	42.5	35.6
PG 2-250	90.3	67.5	53.2	44.5
PG 2-300	108	81.1	63.7	53.4
PG 2-375	135	101	79.7	66.8
PG 2-400	145	108	84.8	71.1
PG 2-450	163	121	95.5	79.9
PG 2-500	181	135	106	89.0
PG 2-575	206	154	122	101
PG 2-600	217	162	127	107
PG 2-625	225	169	132	111
PG 2-750	271	203	159	134
PG 2-800	289	216	170	143
PG 2-1000	360	269	213	178
PG 2-1250	451	337	266	223
PG 2-1500	541	405	319	266
PG 2-1875	677	507	398	333
PG 2-2000	721	540	425	356
PG 2-2500	902	675	531	445
PG 2-3000	1083	811	637	534
PG 2-3850	1390	1040	818	685

Amps to 1.85 VPC				
	8	10	12	24
5.70	4.70	4.00	2.8	
114	9.40	7.99	4.36	
17.1	14.1	12.0	6.54	
22.9	18.9	16.1	8.77	
28.6	23.6	20.1	11.0	
34.3	28.3	24.1	13.1	
42.9	35.4	30.1	16.4	
45.7	37.7	32.0	17.5	
51.4	42.4	36.0	19.7	
57.2	47.2	40.1	21.9	
65.2	53.8	45.7	24.9	
68.6	56.6	48.1	26.3	
71.5	59.0	50.2	27.4	
85.7	70.7	60.1	32.8	
91.5	75.5	64.2	35.0	
114	94.3	80.2	43.8	
143	118	100	54.7	
172	142	120	65.7	
214	177	150	82.1	
229	189	160	87.6	
286	236	200	109	
343	283	241	131	
440	363	309	169	

Battery Model	Time in Hours A h to 1.85 VPC							
	2	3	4	5	8	10	12	24
PG 2-50	32.4	36.4	38.2	40.0	45.6	47.0	48.0	52.3
PG 2-100	64.9	73.0	76.4	80.2	91.2	94.0	95.9	104.6
PG 2-150	97.5	109	115	120	137	141	144	157
PG 2-200	131	147	154	161	183	189	193	210
PG 2-250	163	183	192	201	229	236	241	264
PG 2-300	196	220	230	241	274	283	289	314
PG 2-375	244	275	288	301	343	354	361	394
PG 2-400	261	294	307	321	366	377	384	420
PG 2-450	294	329	345	361	411	424	432	473
PG 2-500	326	367	384	402	458	472	481	526
PG 2-575	372	416	439	458	522	538	548	598
PG 2-600	392	439	459	482	549	566	577	631
PG 2-625	407	457	478	500	572	590	602	658
PG 2-750	490	550	576	604	686	707	721	787
PG 2-800	522	585	615	644	732	755	770	840
PG 2-1000	651	730	768	802	912	943	962	1051
PG 2-1250	814	914	960	1005	1144	1180	1200	1313
PG 2-1500	977	1097	1152	1203	1376	1420	1440	1577
PG 2-1875	1223	1374	1439	1505	1712	1770	1800	1970
PG 2-2000	1304	1464	1537	1609	1832	1890	1920	2102
PG 2-2500	1630	1830	1917	2010	2288	2360	2400	2616
PG 2-3000	1956	2197	2301	2411	2744	2830	2892	3144
PG 2-3850	2511	2820	2956	3094	3520	3630	3708	4056

Amps to 1.80 VPC				
	8	10	12	24
6.06	5.00	4.26	2.32	
12.1	10.00	8.50	4.64	
18.2	15.0	12.8	6.96	
24.3	20.1	17.1	9.33	
30.4	25.1	21.4	11.7	
36.5	30.1	25.6	13.9	
45.6	37.7	32.0	17.4	
48.6	40.1	34.0	18.6	
54.6	45.1	38.3	21.0	
60.8	50.2	42.7	23.3	
69.3	57.2	48.6	26.5	
72.9	60.2	51.2	28.0	
76.0	62.8	53.4	29.2	
91.1	75.2	63.9	34.9	
97.3	80.3	68.3	37.2	
121	100	85.3	46.6	
152	126	106	58.2	
183	151	128	69.9	
228	188	160	87.4	
243	201	170	93.2	
304	251	213	116	
365	301	256	139	
468	386	329	180	

Battery Model	Time in Hours A h to 1.80 VPC							
	2	3	4	5	8	10	12	24
PG 2-50	34.5	38.7	40.7	42.6	48.5	50.0	51.1	55.7
PG 2-100	69.0	77.7	81.3	85.4	97.0	100.0	102.0	1113
PG 2-150	103.7	116	122	128	145	150	153	167
PG 2-200	139	156	163	171	195	201	206	224
PG 2-250	174	195	204	214	243	251	257	281
PG 2-300	208	234	245	257	292	301	308	335
PG 2-375	259	292	307	321	365	377	384	419
PG 2-400	278	313	326	341	389	401	409	447
PG 2-450	312	350	367	384	437	451	460	503
PG 2-500	347	390	408	428	487	502	512	559
PG 2-575	396	443	467	487	555	572	583	636
PG 2-600	417	467	488	513	583	602	614	672
PG 2-625	433	486	509	532	608	628	641	700
PG 2-750	521	585	613	643	729	752	767	838
PG 2-800	555	622	655	685	778	803	820	894
PG 2-1000	692	777	817	854	970	1003	1024	1118
PG 2-1250	866	972	1022	1070	1216	1255	1277	1397
PG 2-1500	1039	1167	1226	1280	1463	1511	1532	1678
PG 2-1875	1301	1461	1530	1602	1820	1883	1915	2097
PG 2-2000	1386	1557	1635	1712	1948	2011	2043	2237
PG 2-2500	1734	1947	2039	2139	2433	2511	2554	2783
PG 2-3000	2081	2337	2448	2566	2917	3011	3077	3345
PG 2-3850	2671	2999	3144	3293	3742	3862	3945	4316

Amps to 1.75 VPC				
	8	10	12	24
6.8	5.0	4.34	2.37	
12.6	10.41	8.85	4.83	
18.9	15.6	13.3	7.24	
25.3	20.9	17.8	9.71	
31.6	26.1	22.3	12.2	
38.0	31.3	26.7	14.5	
47.5	39.2	33.3	18.2	
50.6	41.7	35.4	19.4	
56.9	46.9	39.9	21.8	
63.3	52.3	44.4	24.2	
72.1	59.6	50.6	27.6	
75.9	62.7	53.3	29.1	
79.1	65.3	55.6	30.3	
94.8	78.3	66.5	36.3	
101	83.6	71.1	38.8	
126	104	88.8	48.5	
158	131	111	60.6	
190	157	133	72.7	
237	196	166	90.9	
253	209	177	97.0	
316	261	221	121	
380	313	267	145	
487	402	342	187	

Battery Model	Time in Hours A h to 1.75 VPC							
	2	3	4	5	8	10	12	24
PG 2-50	35.3	39.5	41.6	43.4	49.5	51.0	52.1	56.8
PG 2-100	71.8	80.8	84.6	88.8	100.9	104.1	106.2	115.9
PG 2-150	108.0	121	127	133	151	156	159	174
PG 2-200	145	162	170	178	203	209	214	233
PG 2-250	181	203	213	223	253	261	267	292
PG 2-300	217	243	255	267	304	313	320	348
PG 2-375	270	304	319	334	380	392	400	436
PG 2-400	289	325	339	355	405	417	425	465
PG 2-450	325	364	382	400	455	469	478	524
PG 2-500	361	406	425	445	506	523	533	582
PG 2-575	412	461	486	507	577	596	607	662
PG 2-600	434	486	508	534	607	627	639	699
PG 2-625	451	506	529	554	633	653	667	728
PG 2-750	542	609	638	669	759	783	799	872
PG 2-800	578	647	681	713	810	836	853	930
PG 2-1000	720	808	851	888	1009	1044	1066	1164
PG 2-1250	901	1011	1063	1113	1266	1306	1329	1454
PG 2-1500	1082	1214	1276	1332	1523	1572	1595	1746
PG 2-1875	1354	1520	1593	1667	1894	1960	1993	2182
PG 2-2000	1443	1620	1701	1782	2027	2092	2126	2328
PG 2-2500	1804	2026	2122	2226	2532	2613	2658	2897
PG 2-3000	2165	2432	2547	2670	3036	3133	3202	3481
PG 2-3850	2780	3121	3272	3427	3895	4019	4106	4491

POWER PLUS Watts Per Cell Data

Battery Model	Time in Minutes - Watts per cell to 1.80 VPC						
	5	10	15	30	45	60	90
PG2-50	205	157	132	88	67	55	37
PG2-100	410	314	265	176	133	109	74.4
PG2-150	586	450	379	251	191	156	112
PG2-200	548	480	404	315	250	209	149
PG2-250	684	600	505	393	313	262	186
PG2-300	820	719	606	472	374	313	223
PG2-375	1027	899	758	589	469	392	280
PG2-400	1094	960	808	629	499	417	297
PG2-450	1232	1079	909	708	562	470	335
PG2-500	1368	1199	1010	787	624	522	373
PG2-575	1560	1366	1151	896	712	595	425
PG2-600	1642	1438	1212	944	750	626	447
PG2-625	1711	1499	1264	983	780	652	466
PG2-750	2052	1799	1515	1180	937	783	559
PG2-800	2188	1918	1616	1259	998	834	596
PG2-1000	2736	2398	2020	1572	1249	1043	744
PG2-1250	3420	2998	2525	1965	1562	1305	932
PG2-1500	4104	3597	3030	2359	1873	1565	1117
PG2-1875	5062	4436	3738	2909	2310	1931	1379
PG2-2000	5472	4796	4041	3145	2497	2086	1490
PG2-2500	6841	5995	5051	3932	3122	2608	1862
PG2-3000	8209	7194	6061	4717	3746	3129	2235
PG2-3850	10535	9232	7778	6055	4809	4017	2867

Battery Model	Time in Hours - Watts per cell to 1.85 VPC							
	2	3	4	5	8	10	12	24
PG2-50	31.4	23.6	18.7	15.8	11.3	9.4	8.0	4.4
PG2-100	62.7	47.5	37.5	31.6	22.7	18.7	16.0	8.7
PG2-150	94.3	71.1	56.3	47.4	34.0	28.1	24.0	13.1
PG2-200	126	95.3	75.4	63.4	45.5	37.7	32.2	17.6
PG2-250	158	119	94.2	79.2	56.8	47.1	40.2	22.0
PG2-300	189	143	113	95.0	68.2	56.4	48.2	26.3
PG2-375	236	178	141	119	85.2	70.6	60.2	32.9
PG2-400	252	191	150	126	90.8	75.2	64.0	35.1
PG2-450	284	214	169	142	102	84.5	72.0	39.5
PG2-500	315	238	188	158	114	94.1	80.2	43.9
PG2-575	360	270	215	180	130	107	91.4	49.9
PG2-600	379	285	225	190	136	113	96.2	52.7
PG2-625	393	297	235	197	142	118	100	54.9
PG2-750	473	357	283	238	170	141	120	65.7
PG2-800	505	380	302	254	182	151	128	70.1
PG2-1000	629	475	377	316	227	188	160	87.8
PG2-1250	787	594	471	396	284	235	200	110
PG2-1500	945	713	565	474	342	283	240	132
PG2-1875	1182	892	706	593	425	353	300	165
PG2-2000	1260	951	754	634	455	377	320	176
PG2-2500	1575	1189	940	792	568	471	400	218
PG2-3000	1891	1427	1129	950	682	564	482	263
PG2-3850	2427	1832	1450	1219	874	724	618	339

Battery Model	Time in Minutes - Watts per cell to 1.75 VPC						
	5	10	15	30	45	60	90
PG2-50	213	163	137	91	69	57	38
PG2-100	433	333	280	186	141	116	77.5
PG2-150	620	475	401	266	201	165	116
PG2-200	644	531	459	335	266	222	156
PG2-250	804	663	573	417	332	277	194
PG2-300	964	794	687	501	398	332	234
PG2-375	1205	993	859	624	496	414	291
PG2-400	1283	1058	916	666	530	443	311
PG2-450	1443	1191	1030	750	596	498	349
PG2-500	1607	1325	1148	834	663	554	388
PG2-575	1833	1510	1307	951	755	631	444
PG2-600	1927	1589	1376	1001	795	663	466
PG2-625	2007	1656	1432	1043	827	691	486
PG2-750	2408	1985	1719	1250	993	829	583
PG2-800	2571	2120	1835	1334	1059	886	622
PG2-1000	3212	2649	2292	1667	1323	1106	777
PG2-1250	4015	3310	2865	2084	1655	1382	971
PG2-1500	4809	3966	3431	2496	1983	1655	1164
PG2-1875	6022	4966	4297	3127	2482	2074	1458
PG2-2000	6426	5299	4585	3336	2650	2213	1490
PG2-2500	8031	6621	5730	4168	3311	2765	1942
PG2-3000	9638	7948	6877	5004	3973	3319	2331
PG2-3850	12369	10198	8826	6420	5100	4260	2993

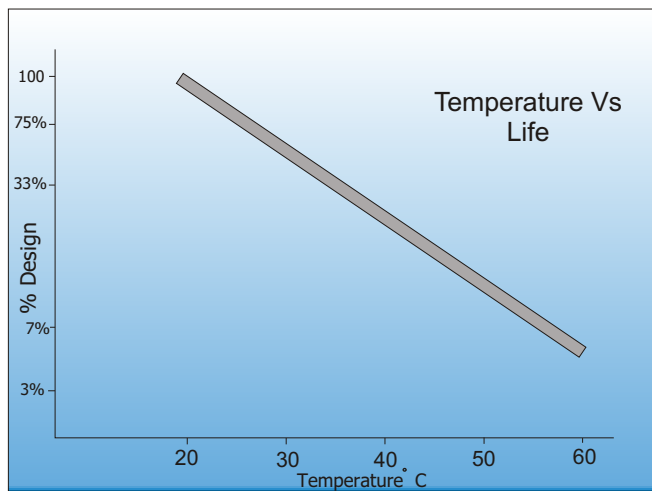
Battery Model	Time in Hours - Watts per cell to 1.80 VPC							
	2	3	4	5	8	10	12	24
PG2-50	33.4	25.1	19.9	16.8	12.0	10.0	8.5	4.6
PG2-100	66.7	50.5	39.9	33.6	24.1	19.9	17.0	9.3
PG2-150	100	75.6	59.9	50.4	36.1	29.9	25.5	13.9
PG2-200	134	101	80.2	67.5	48.4	40.1	34.2	18.7
PG2-250	168	126	100	84.3	60.4	50.1	42.8	23.5
PG2-300	201	152	120	101	72.5	60.0	51.3	27.9
PG2-375	251	190	150	126	90.6	75.1	64.0	35.0
PG2-400	268	203	160	135	96.5	80.0	68.1	37.3
PG2-450	302	227	180	151	109	89.9	76.6	42.0
PG2-500	335	253	200	169	121	100	85.3	46.7
PG2-575	383	288	229	192	138	114	97.2	53.1
PG2-600	403	304	239	202	145	120	102	56.1
PG2-625	418	316	250	210	151	125	107	58.4
PG2-750	503	380	301	253	181	150	128	69.9
PG2-800	537	404	321	270	193	160	137	74.6
PG2-1000	669	505	401	336	241	200	171	93.4
PG2-1250	837	631	501	421	302	250	213	117
PG2-1500	1005	758	601	504	363	301	255	140
PG2-1875	1257	949	751	631	452	375	319	175
PG2-2000	1340	1011	802	675	484	401	340	187
PG2-2500	1676	1265	1000	843	604	501	425	232
PG2-3000	2011	1518	1201	1011	725	600	513	279
PG2-3850	2581	1948	1542	1297	930	770	657	360

Battery Model	Time in Minutes - Watts per cell to 1.67 VPC					
	5	10	15	30	45	60
PG2-50	189	157	151	94	71	58
PG2-100	384	321	306	191	144	117
PG2-150	551	459	439	273	206	168
PG2-200	718	614	510	347	272	226
PG2-250	896	768	638	432	340	280
PG2-300	1073	921	763	519	408	337
PG2-375	1342	1150	954	648	509	421
PG2-400	1431	1227	1018	690	543	450
PG2-450	1610	1379	1144	777	609	504
PG2-500	1791	1535	1275	864	678	563
PG2-575	2041	1749	1452	986	773	641
PG2-600	2148	1841	1528	1036	814	674
PG2-625	2238	1918	1591	1080	848	703
PG2-750	2683	2300	1909	1294	1017	843
PG2-800	2866	2455	2039	1383	1086	899
PG2-1000	3579	3068	2547	1728	1357	1123
PG2-1250	4474	3835	3183	2159	1695	1406
PG2-1500	5360	4595	3814	2586	2032	1683
PG2-1875	6712	5753	4776	3239	2543	2107
PG2-2000	7161	6138	5096	3455	2714	2249
PG2-2500	8949	7671	6367	4319	3392	2810
PG2-3000	10740	9206	7641	5183	4071	3372
PG2-3850	13784	11815	9807	6651	5223	4328

Battery Model	Time in Hours - Watts per cell to 1.75 VPC							
	2	3	4	5	8	10	12	24
PG2-50	34.1	25.7	20.4	17.1	12.3	10.2	8.7	4.7
PG2-100	69.4	52.5	41.5	35.0	25.1	20.8	17.7	9.7
PG2-150	104	78.7	62.4	52.5	37.6	31.1	26.6	14.5
PG2-200	140	105	83.4	70.2	50.3	41.7	35.6	19.5
PG2-250	175	132	104	87.7	62.9	52.1	44.5	24.4
PG2-300	209	158	125	105	75.4	62.5	53.3	29.1
PG2-375	261	198	156	132	94.3	78.1	66.6	36.4
PG2-400	279	211	166	140	100	83.2	70.8	38.8
PG2-450	314	236	187	157	113	93.6	79.7	43.7
PG2-500	349	264	208	175	126	104	88.8	48.6
PG2-575	398	299	238	200	143	119	101	55.3
PG2-600	419	316	249	210	151	125	106	58.4
PG2-625	435	329	260	218	157	130	111	60.8
PG2-750	524	395	313	264	188	156	133	72.8
PG2-800	559	421	334	281	201	167	142	77.7
PG2-1000	696	525	417	350	251	208	178	97.2
PG2-1250	871	657	522	439	314	260	221	121
PG2-1500	1045	789	626	525	378	313	266	146
PG2-1875	1308	988	781	657	470	391	332	182
PG2-2000	1395	1052	834	702	503	417	354	194
PG2-2500	1744	1316	1041	877	629	521	443	242
PG2-3000	2093	1580	1250	1052	754	625	533	291
PG2-3850	2686	2028	1605	1350	967	801	684	375

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				
PG2-50	161	50	166	3.8	6.34	1.97	6.54	8.8	2	2.1	10	509
PG2-100	171	72	205	5.6	6.73	2.83	8.07	17.7	2	2	20	1080
PG2-150	172	102	205	10	6.77	4.02	8.07	24.3	2	1.5	30	1550
PG2-200	173	111	329	14.2	6.81	4.37	12.95	30.9	2	0.5	40	1600
PG2-250	173	111	329	17	6.81	4.37	12.95	39.8	2	0.45	50	2000
PG2-300	171	151	330	19.7	6.73	5.94	12.99	46.4	2	0.4	60	2400
PG2-375	171	151	330	23.5	6.73	5.94	12.99	51.9	2	0.39	75	3000
PG2-400	211	176	329	27	8.31	6.93	12.95	59.7	4	0.36	80	3200
PG2-450	223	187	351	32	8.78	7.36	13.82	66.3	4	0.33	90	3600
PG2-500-1	211	176	329	32.3	8.3	6.93	12.95	70.7	4	0.3	100	4000
PG2-500-2	241	172	331		9.5	6.77	13.03					
PG2-575	223	187	351	36.5	8.78	7.36	13.82	77.4	4	0.29	115	4600
PG2-600	301	175	331	38	11.85	6.89	13.03	84.0	4	0.28	120	4800
PG2-625	241	172	331	39	9.49	6.77	13.03	103.9	4	0.25	125	5000
PG2-750	301	175	331	51	11.85	6.89	13.03	121.6	4	0.22	130	6000
PG2-800	410	175	330	52.5	16.14	6.89	12.99	126.0	8	0.2	160	6400
PG2-1000-1	410	175	330	63	16.14	6.89	13	139.2	8	0.16	200	7900
PG2-1000-2	475	175	328		18.7		12.91					
PG2-1250	475	175	328	78	18.70	6.89	12.91	172.4	8	0.13	250	10050
PG2-1500	401	351	342	103	15.79	13.82	13.46	221.0	8	0.11	300	11950
PG2-1875	401	351	342	125	15.79	13.82	13.46	276.3	8	0.1	375	15050
PG2-2000	491	351	344	132	19.33	13.82	13.54	291.7	8	0.09	400	16100
PG2-2500	491	351	344	175	19.33	13.82	13.54	386.8	8	0.08	500	19850
PG2-3000	712	353	341	211	28.03	13.90	13.43	464.1	8	0.08	600	24100
PG2-3850	712	353	341	261	28.03	13.90	13.43	576.8	8	0.07	770	30800

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



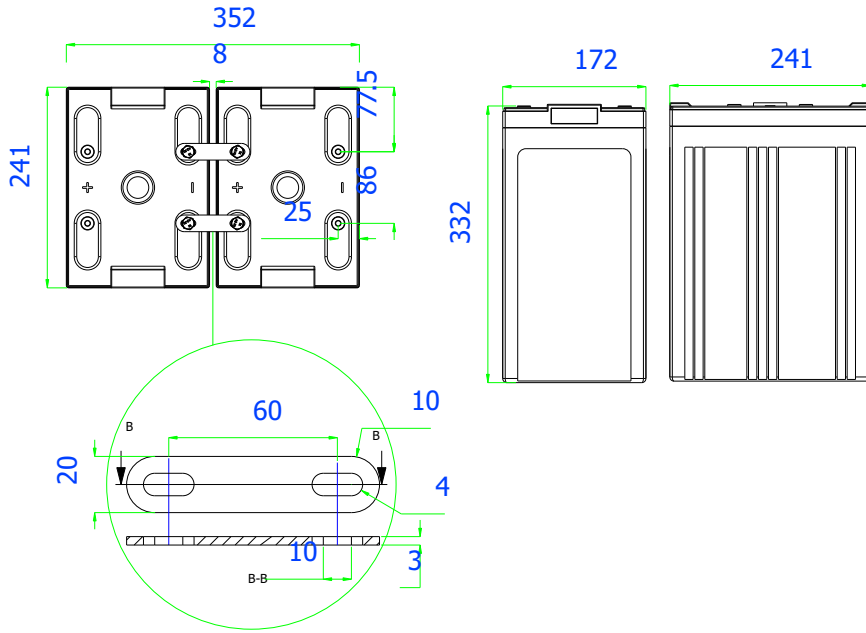
Temperature	Shelf Life
0 °C - 20 °C (32 °F - 68 °F)	12 Months
21 °C - 30 °C (69 °F - 86 °F)	9 Months
31 °C - 40 °C (87 °F - 104 °F)	5 Months
41 °C - 50 °C (105 °F - 112 °F)	2.5 Months

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.

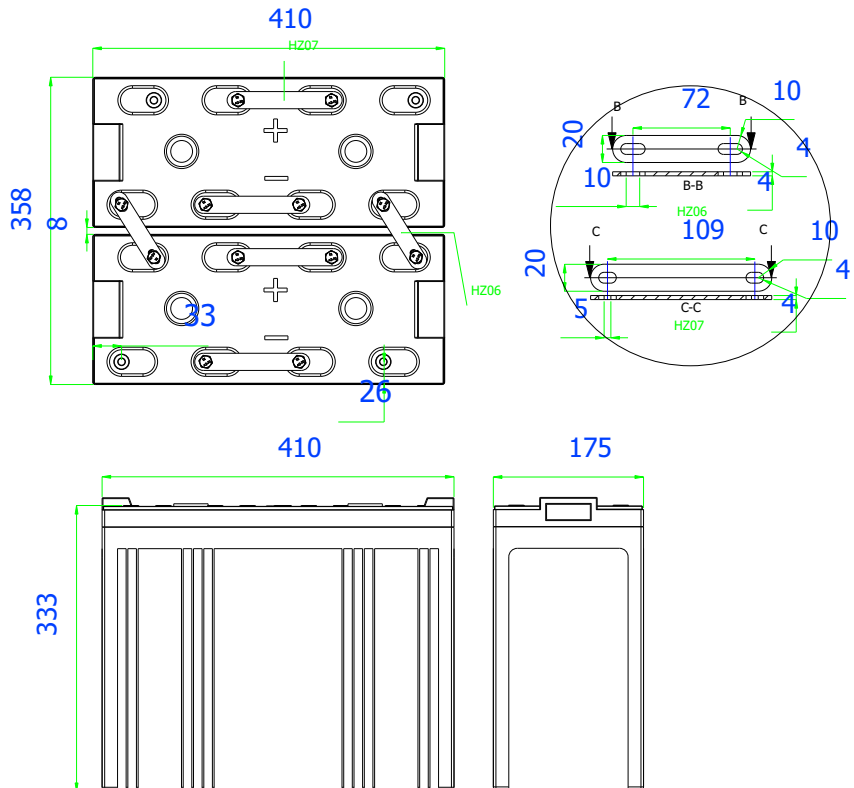
The most suitable charging method for battery life and performance is the constant voltage method with a limited initial current, usually limited to a maximum of $C_{20}/4$.

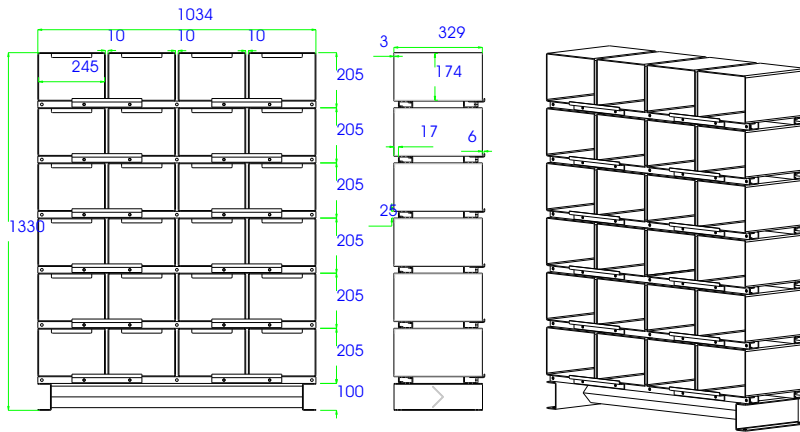
POWER PLUS Typical Battery Layouts



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.

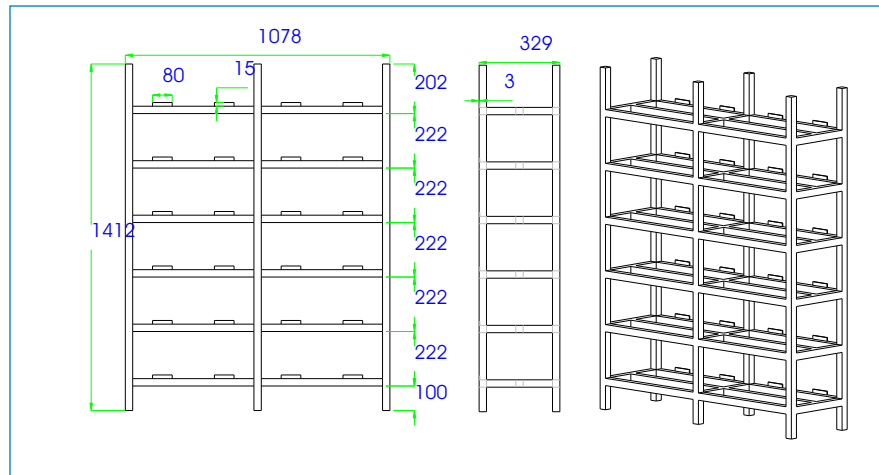




RACKING OPTIONS - Many racking options are available from Interlink. The favored style in Europe is the open rack, which can be designed to suit an existing foot print or minimised to fit the minimum possible space. Rack construction is from heavy duty steel section with welded joints or alternatively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



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