

ABSOLYTE[®] XL



2000 to 6000 AH

**Performance Specifications for ABSOLYTE[®] XL Batteries
Amperes @ 25°C (77°F) — 1 minute to 120 hours**

**CONSTANT CURRENT
SPECIFICATIONS
High Capacity VRLA Line**

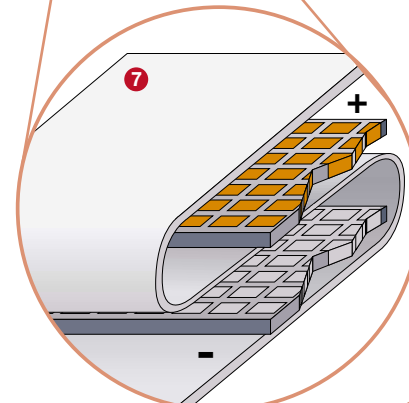
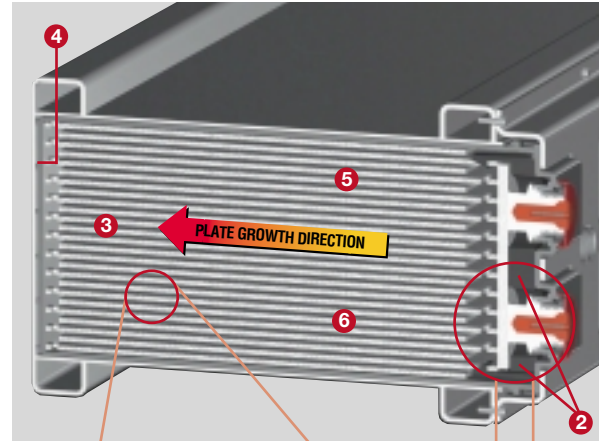


ABSOLYTE[®] XL

State of the Art Design

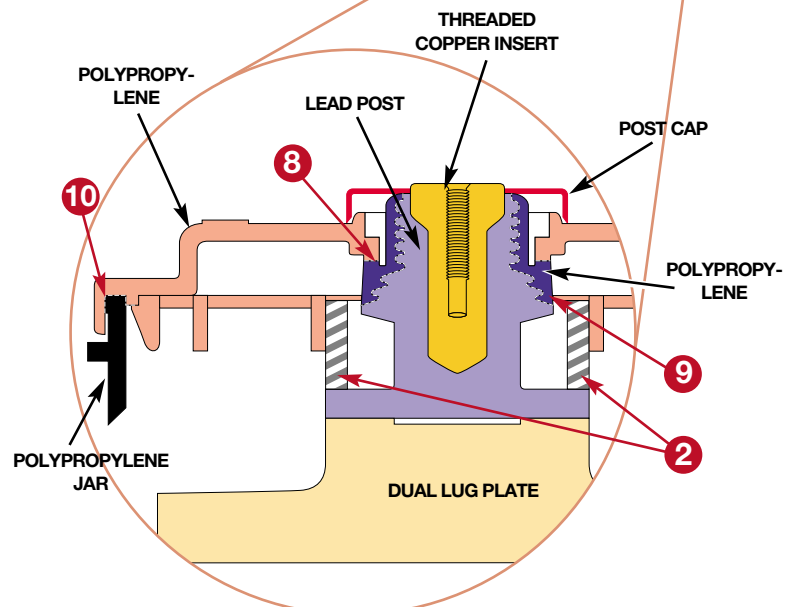
As an industrial battery ages, chemical corrosion causes the positive plates to expand, placing pressure on the posts, the cover and the seals. Excessive plate growth, which can be caused by high temperature environments, will cause the positive plate to damage the cover and seals, thus shortening the life of the battery. The XL design eliminates this failure mode by removing stresses placed on the seals and cover by forcing the growth away from the seal.

- 1 The steel face plate eliminates stress on cover, and improves heat dissipation through cover.
- 2 The post restraint spacer eliminates stress on post using the face plate for support.
- 3 Plate growth is forced away from the posts and cover seals.
- 4 Additional space to accommodate the positive plate growth.
- 5 Horizontal plate stacking improves heat dissipation through tray.
- 6 High separator compression within the cell maintains plate to separator contact, preventing capacity loss.
- 7 Unique "S" wrap absorbed glass mat separator design prevents positive (orange) plate to negative (gray) plate shorting.



The Most Reliable Post and Jar to Cover Seal Design

- 8 The XL post seal design eliminates the lead to lead bond with a completely non-corrosive polypropylene to polypropylene bond – formed by a fusion process that creates a bond as strong as, or stronger than the original material.
- 9 The interface between the lead post and the plastic sleeve is coated with a viscous bonding agent which guarantees a leak free bond.
- 10 The proven tongue and groove seal technology used on the jar to cover seal improves seal strength and durability.



In Plant Helium Leak Testing

Leaks 1000 times smaller than the eye can see are discovered by super-sensitive leak detection system, guaranteeing the quality of the seals.

ABSOLYTE[®] XL

Absolyte[®] XL Quick Specs

System Ampere-hour Range: 2000 to 6000 Ah to 1.75 VPC at 8 hour rate

Container and Cover. Flame Retardant Polypropylene standard (UL94 V-0/28% L.O.I)

Positive Plate: MFX grid alloy (patented)

Negative Plate: Lead Calcium grid alloy

Separator: Absorbent glass mat (AGM)

Electrolyte: 1.295 Specific Gravity Acid

Terminals: Solid Copper

Safety Vent: 5-10 psi opening pressure, self resealing

Container to Cover Seal: Polypropylene to polypropylene fusion bond



Post to Cover Seal: Polypropylene to polypropylene fusion bond

Float Voltage: 2.23 to 2.25 VPC

Life Expectancy in Float Conditions: 20 years at 25°C(77°F) and following proper charging conditions

Life Expectancy in Cycling Conditions: 1200 cycles to 80% DOD

Operating Temperature: Temperature excursions between -40°C (-40°F) to +50°C (122°F) allowed (Battery performance and life will be affected)

Seismic Zone 4 Certified:

1994 UBC (At all levels)

XL2000: 6 high

XL3000: 4 high

1997 UBC (At or below grade)

XL2000: 6 high

XL3000: 6 high

Absolyte[®] XL Module Weights and Dimensions

MODULE TYPE	VOLTS**	NOM AH CAP (8 HR)	STACKING DIMENSIONS						MAXIMUM UNPACKED WEIGHT	
			LENGTH		DEPTH*		HEIGHT		LBS	KG
			IN	MM	IN	MM	IN	MM		
XL2000	4	2000	38.09	967	21.36	543	11.46	291	695	315
XL3000	4	3000	38.09	967	21.36	543	15.57	396	985	447

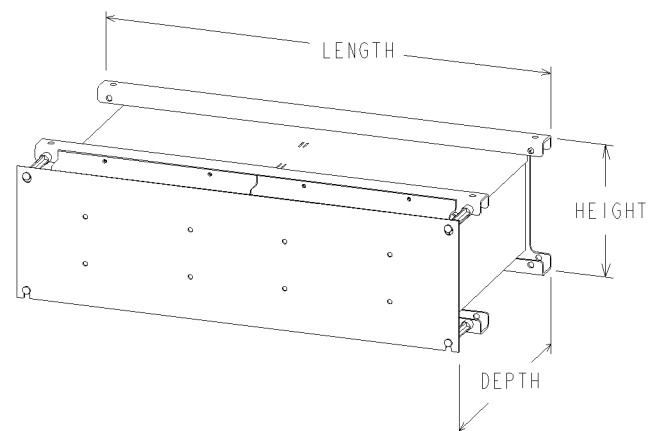
* Includes 80 mm (3.15") additional for Module Cover Assembly

** 2 Cells Per Module

Note: Design and/or specifications subject to change without notice. If questions arise, contact your local GNB sales representative for clarification.

Horizontal Stack Assembly

- Depth is overall, including module cover assembly.
- Add 102mm (4") for bottom I-beam supports to determine the total height of each assembled horizontal stack.
- Allow 152mm (6") additional clearance wherever a terminal plate assembly is to be located.



ABSOLYTE[®] XL

Absolyte[®] XL Performance Specifications — Constant Current, 1 minute to 24 hours Amperes to 1.50 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS												MINUTES		
	24	12	10	9	8	7	6	5	4	3	2	1	30	15	1
XL2000	99	182	212	232	255	284	321	369	438	542	729	1241	2023	2938	4181
XL3000	148	273	318	347	383	426	481	554	656	812	1094	1861	3034	4406	6272
XL4000	198	364	425	463	510	568	642	739	875	1083	1458	2481	4046	5876	8362
XL5000	247	455	531	579	638	710	802	924	1094	1354	1823	3101	5057	7344	10453
XL6000	296	546	637	695	765	852	962	1108	1313	1625	2187	3722	6068	8812	12544

Amperes to 1.60 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS												MINUTES		
	24	12	10	9	8	7	6	5	4	3	2	1	30	15	1
XL2000	99	182	212	231	254	283	320	369	437	540	726	1223	1907	2578	3657
XL3000	148	272	318	347	382	425	480	553	655	810	1089	1835	2861	3867	5486
XL4000	197	363	424	462	509	567	640	737	873	1081	1453	2447	3814	5156	7314
XL5000	246	454	530	578	636	708	800	922	1092	1351	1816	3059	4768	6445	9143
XL6000	296	545	635	693	763	850	960	1106	1310	1621	2179	3670	5722	7734	10972

Amperes to 1.70 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS												MINUTES		
	24	12	10	9	8	7	6	5	4	3	2	1	30	15	1
XL2000	98	180	210	229	253	281	318	366	433	536	716	1167	1702	2157	2791
XL3000	146	270	315	344	379	422	477	549	650	803	1074	1750	2553	3235	4187
XL4000	195	360	420	459	505	563	636	732	867	1071	1432	2333	3404	4314	5582
XL5000	244	450	525	573	632	703	795	915	1083	1339	1790	2917	4255	5392	6978
XL6000	293	540	630	688	758	844	954	1098	1300	1607	2148	3500	5106	6470	8374

Amperes to 1.75 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS												MINUTES		
	24	12	10	9	8	7	6	5	4	3	2	1	30	15	1
XL2000	96	178	208	227	250	278	315	362	429	529	702	1108	1569	1913	2336
XL3000	144	267	312	340	375	418	472	544	643	793	1053	1662	2353	2869	3504
XL4000	193	356	416	454	500	557	629	725	858	1058	1405	2216	3138	3826	4672
XL5000	241	445	520	567	625	696	787	906	1072	1322	1756	2770	3922	4782	5840
XL6000	289	534	624	681	750	835	944	1087	1286	1586	2107	3324	4706	5738	7008

Amperes to 1.78 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS												MINUTES		
	24	12	10	9	8	7	6	5	4	3	2	1	30	15	1
XL2000	95	176	206	224	247	275	311	358	423	521	687	1060	1467	1758	2106
XL3000	143	264	308	337	371	413	467	537	635	781	1031	1589	2200	2637	3160
XL4000	190	352	411	449	495	551	622	716	847	1041	1374	2119	2934	3516	4212
XL5000	238	440	514	561	618	688	778	895	1058	1302	1718	2649	3667	4395	5266
XL6000	286	528	617	673	742	826	933	1074	1270	1562	2062	3179	4400	5274	6320

Amperes to 1.80 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS												MINUTES		
	24	12	10	9	8	7	6	5	4	3	2	1	30	15	1
XL2000	94	174	203	222	245	272	308	354	418	513	674	1023	1399	1643	1912
XL3000	141	261	305	333	367	409	461	531	627	770	1011	1535	2099	2465	2868
XL4000	188	349	407	444	489	545	615	708	836	1026	1347	2046	2798	3286	3824
XL5000	235	436	509	555	611	681	769	885	1045	1283	1684	2558	3498	4108	4780
XL6000	282	523	610	666	734	817	923	1062	1254	1539	2021	3069	4198	4930	5736

ABSOLYTE[®] XL

Absolyte[®] XL Performance Specifications — Constant Current, 1 to 24 hours Amperes to 1.81 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS											
	24	12	10	9	8	7	6	5	4	3	2	1
XL2000	94	173	202	221	243	270	305	351	414	508	666	1003
XL3000	140	260	303	331	364	406	458	527	622	762	999	1505
XL4000	187	346	404	441	486	541	611	702	829	1016	1331	2006
XL5000	234	433	505	551	607	676	763	878	1036	1270	1664	2508
XL6000	281	519	606	662	729	811	916	1053	1243	1525	1997	3010

Amperes to 1.83 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS											
	24	12	10	9	8	7	6	5	4	3	2	1
XL2000	92	170	198	216	238	265	299	344	405	496	647	963
XL3000	138	255	298	325	357	398	449	516	608	744	971	1444
XL4000	184	340	397	433	477	530	599	688	811	992	1295	1926
XL5000	230	425	496	541	596	663	748	860	1013	1240	1618	2407
XL6000	276	510	595	649	715	796	898	1032	1216	1488	1942	2889

Amperes to 1.84 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS											
	24	12	10	9	8	7	6	5	4	3	2	1
XL2000	91	168	196	214	235	262	295	339	400	489	638	941
XL3000	137	252	294	321	353	393	443	509	599	734	957	1412
XL4000	182	336	392	428	470	523	590	678	799	978	1276	1882
XL5000	228	420	490	534	588	654	738	848	999	1223	1595	2353
XL6000	274	504	588	641	706	785	886	1017	1199	1467	1914	2823

Amperes to 1.85 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS											
	24	12	10	9	8	7	6	5	4	3	2	1
XL2000	90	166	193	211	232	258	291	334	394	481	627	919
XL3000	135	249	290	316	348	387	437	501	590	722	940	1379
XL4000	180	332	387	422	464	516	582	669	787	963	1253	1838
XL5000	225	415	484	527	580	645	728	836	984	1203	1566	2298
XL6000	270	498	580	633	696	775	873	1003	1181	1444	1880	2757

Amperes to 1.86 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS											
	24	12	10	9	8	7	6	5	4	3	2	1
XL2000	89	163	190	207	228	254	286	328	386	472	615	897
XL3000	133	245	285	311	342	380	429	492	580	709	923	1346
XL4000	178	327	380	415	456	507	572	656	773	945	1230	1795
XL5000	222	408	476	519	570	634	715	820	966	1181	1538	2244
XL6000	267	490	571	622	684	761	858	985	1159	1417	1845	2692

Amperes to 1.88 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS											
	24	12	10	9	8	7	6	5	4	3	2	1
XL2000	86	157	183	200	220	244	275	316	371	452	586	845
XL3000	128	236	275	300	330	366	413	473	556	678	878	1268
XL4000	171	315	367	400	439	488	550	631	742	905	1171	1691
XL5000	214	393	458	500	549	611	688	789	927	1131	1464	2113
XL6000	257	472	550	599	659	733	825	947	1113	1357	1757	2536

ABSOLYTE[®] XL

Absolyte[®] XL Performance Specifications - Constant Current, 1 to 24 hours Amperes to 1.90 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS											
	24	12	10	9	8	7	6	5	4	3	2	1
XL2000	81	149	174	190	209	232	262	300	354	431	555	769
XL3000	122	224	261	285	313	348	393	451	530	647	832	1153
XL4000	162	299	348	380	418	464	524	601	707	862	1109	1537
XL5000	203	374	435	475	522	581	654	751	884	1078	1387	1922
XL6000	244	448	522	569	626	697	785	901	1061	1293	1664	2306

Amperes to 1.92 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS											
	24	12	10	9	8	7	6	5	4	3	2	1
XL2000	76	140	163	178	195	217	245	281	330	403	519	718
XL3000	114	210	244	267	293	326	367	421	495	604	778	1077
XL4000	153	280	326	355	391	434	489	562	661	806	1037	1436
XL5000	191	350	407	444	488	543	612	702	826	1007	1296	1795
XL6000	229	420	489	533	586	652	734	843	991	1208	1556	2154

Amperes to 1.94 Final Volts Per Cell @ 25°C (77°F)

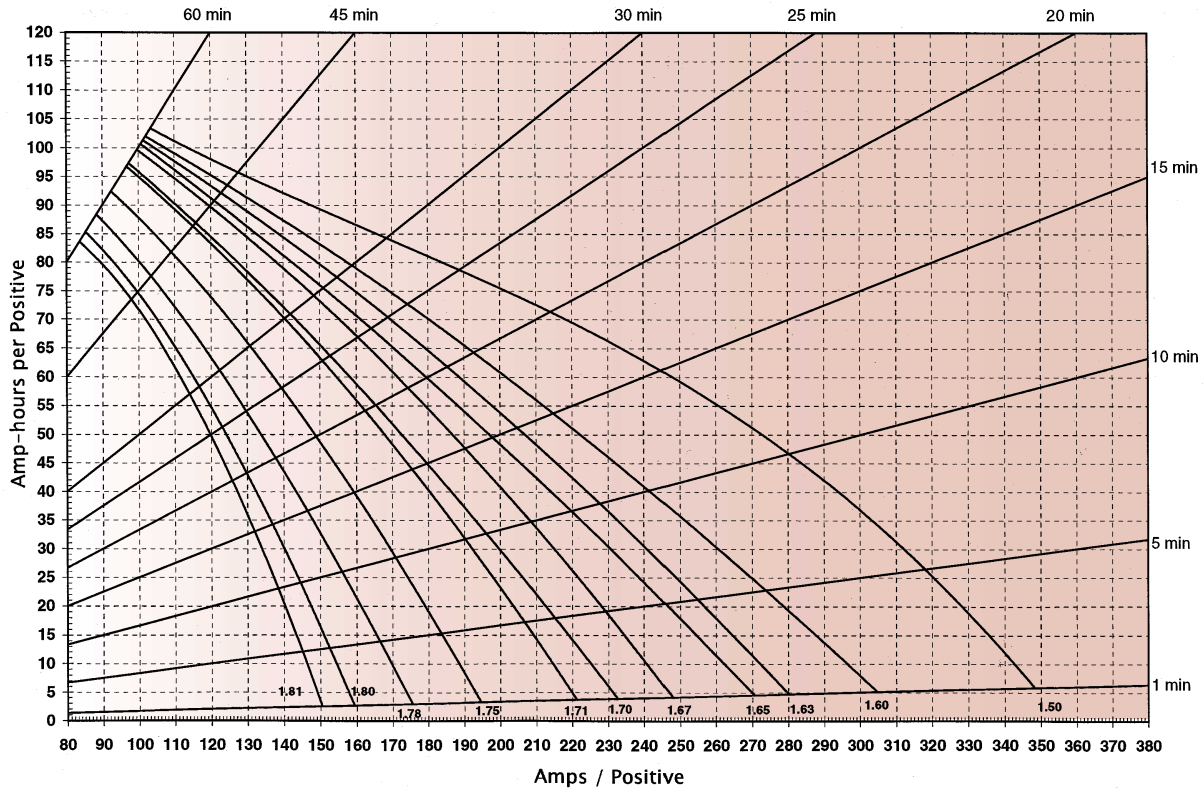
BATTERY TYPE	HOURS											
	24	12	10	9	8	7	6	5	4	3	2	1
XL2000	70	129	151	164	181	201	227	261	307	372	471	622
XL3000	105	194	226	247	271	302	341	391	460	558	706	934
XL4000	140	258	301	329	362	403	454	522	613	744	942	1245
XL5000	175	323	377	411	452	504	568	652	766	930	1177	1556
XL6000	210	387	452	493	543	604	682	782	920	1116	1413	1867

Note: To obtain amps for each XL system — multiply the amps/positive value from table by the number of positive plates.

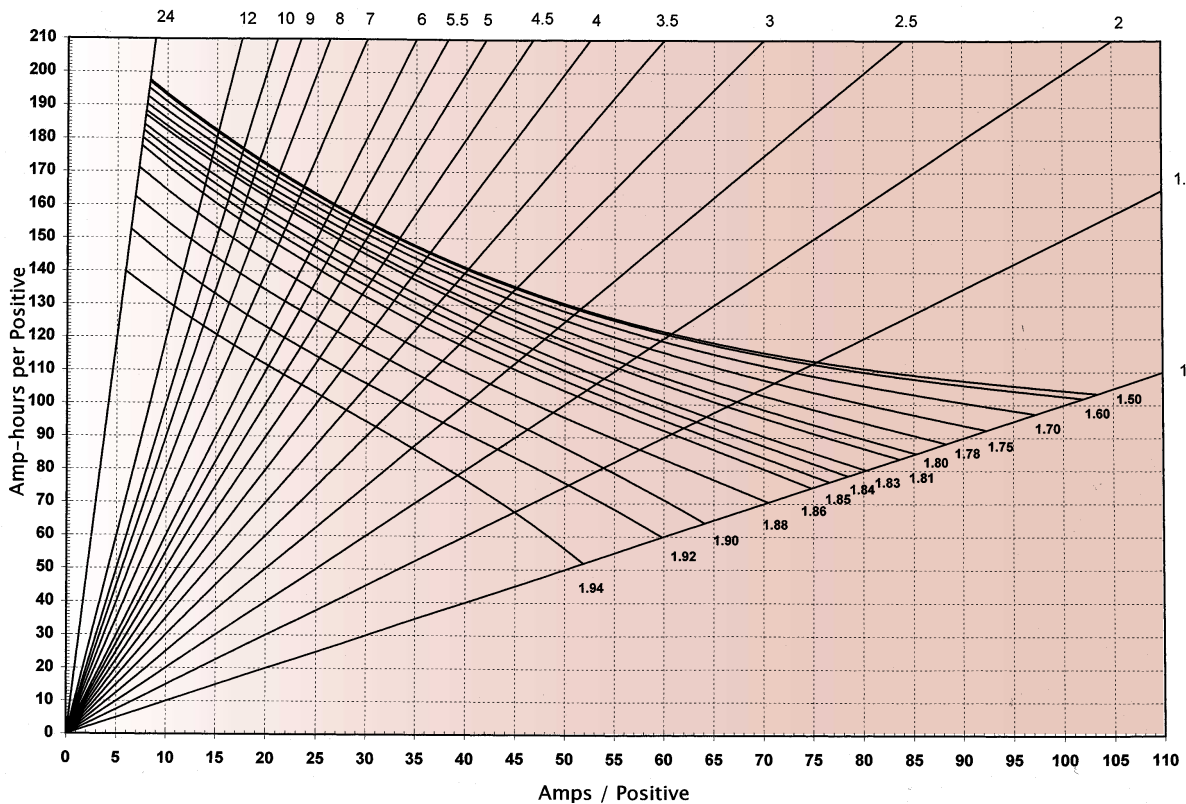
System	XL2000	XL3000	XL4000	XL5000	XL6000
# of Positive Plates	12	18	24	30	36

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Absolyte[®] XL Performance Curves - Constant Current, 1 to 60 minutes



Absolyte[®] XL Performance Curves - Constant Current, 1 to 24 hours



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Absolyte[®] XL Performance Specifications — Constant Current, 36 to 120 hours

Amperes to 1.75 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS				
	120	100	72	48	36
XL2000	22	26	36	53	70
XL3000	33	39	54	79	104
XL4000	44	52	72	106	139
XL5000	54	65	89	132	174
XL6000	65	78	107	159	209

Amperes to 1.78 Final Volts Per Cell @ 25°C (77°F)

XL2000	22	26	35	52	69
XL3000	32	39	53	78	103
XL4000	43	51	71	104	137
XL5000	54	64	88	131	171
XL6000	65	77	106	157	206

Amperes to 1.80 Final Volts Per Cell @ 25°C (77°F)

XL2000	21	25	35	52	68
XL3000	32	38	52	77	102
XL4000	43	51	70	103	135
XL5000	53	64	87	129	169
XL6000	64	76	105	155	203

Amperes to 1.81 Final Volts Per Cell @ 25°C (77°F)

XL2000	21	25	35	51	67
XL3000	32	38	52	77	101
XL4000	42	50	69	102	134
XL5000	53	63	87	128	168
XL6000	63	76	104	154	202

Amperes to 1.83 Final Volts Per Cell @ 25°C (77°F)

XL2000	21	25	34	50	66
XL3000	31	37	51	75	99
XL4000	42	50	68	100	132
XL5000	52	62	85	126	165
XL6000	62	74	102	151	198

Amperes to 1.84 Final Volts Per Cell @ 25°C (77°F)

XL2000	21	24	34	50	65
XL3000	31	37	50	74	98
XL4000	41	49	67	99	130
XL5000	51	61	84	124	163
XL6000	62	73	101	149	195

ABSOLYTE® XL

Absolyte® XL Performance Specifications — Constant Current, 36 to 120 hours

Amperes to 1.85 Final Volts Per Cell @ 25°C (77°F)

BATTERY TYPE	HOURS				
	120	100	72	48	36
XL2000	20	24	33	49	64
XL3000	30	36	50	73	96
XL4000	40	48	66	98	129
XL5000	51	60	83	122	161
XL6000	61	72	100	147	193

Amperes to 1.86 Final Volts Per Cell @ 25°C (77°F)

XL2000	20	24	33	48	63
XL3000	30	36	49	72	95
XL4000	40	48	65	96	127
XL5000	50	59	82	121	158
XL6000	60	71	98	145	190

Amperes to 1.88 Final Volts Per Cell @ 25°C (77°F)

XL2000	19	23	31	46	61
XL3000	29	34	47	70	91
XL4000	38	46	63	93	122
XL5000	48	57	78	116	152
XL6000	57	68	94	139	183

Amperes to 1.90 Final Volts Per Cell @ 25°C (77°F)

XL2000	18	22	30	44	58
XL3000	27	32	45	66	87
XL4000	36	43	59	88	116
XL5000	45	54	74	110	145
XL6000	54	65	89	132	173

Amperes to 1.92 Final Volts Per Cell @ 25°C (77°F)

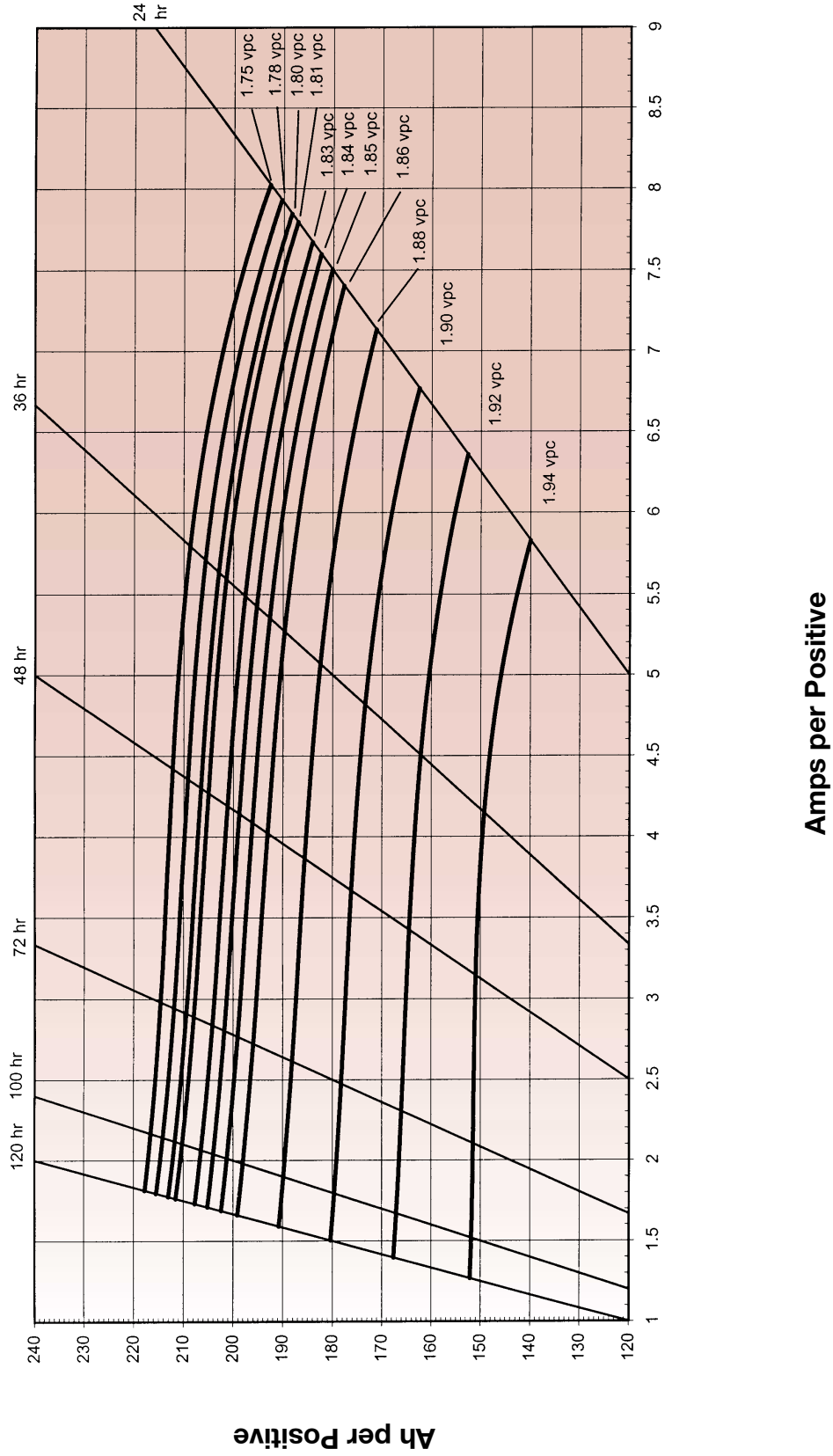
XL2000	17	20	28	41	54
XL3000	25	30	42	62	81
XL4000	34	40	55	82	108
XL5000	42	50	69	103	135
XL6000	50	60	83	123	162

Amperes to 1.94 Final Volts Per Cell @ 25°C (77°F)

XL2000	15	18	25	38	50
XL3000	23	27	38	57	75
XL4000	30	36	51	75	100
XL5000	38	46	63	94	124
XL6000	46	55	76	113	149

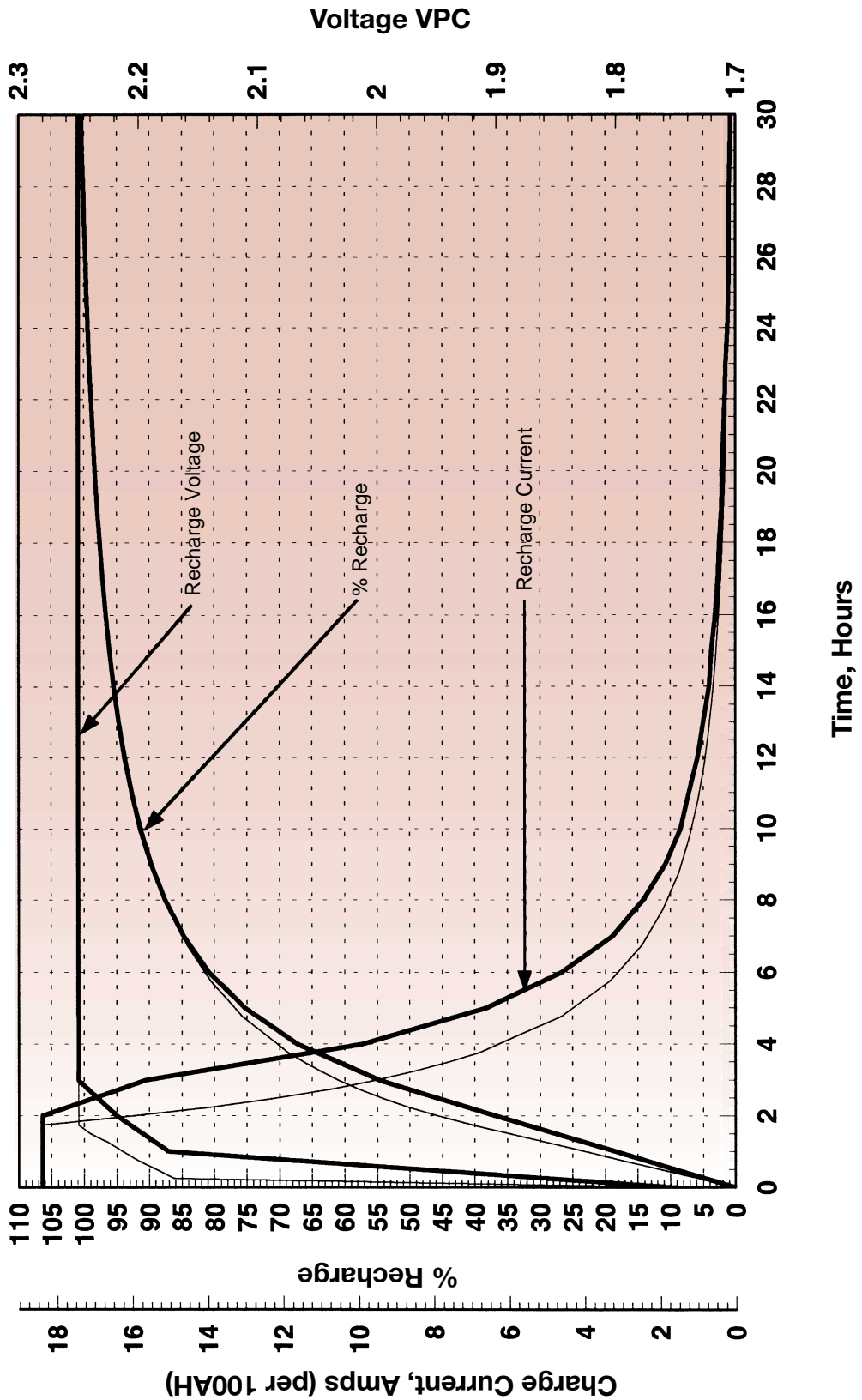
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Absolyte[®] XL Long Duration Discharge Performance, 24 to 120 hours



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Absolyte[®] XL Recharge Characteristics @ 25°C (77°F), 2.24 Volts Per Cell Float



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