

C&D TECHNOLOGIES

Power Solutions

LIBERTY XLB

Valve-Regulated, Lead-Calcium Battery
with Prelyte®-Gelled Electrolyte



MODEL XLB

for UPS and Switchgear Control

- **Performance** 870 to 5800 watts per cell (15 min. to 1.67 volts) 328 to 2184 Ampere-hours (8 hours to 1.75 volts)
- **Life Expectancy** 20 years, full-float service @ 77F (25C)
- **Electrolyte** 1.290 specific-gravity-gelled sulfuric acid
- **Float Voltage** 2.27 +/- .02 volts per cell
- **Container and Cover** Flame-retardant thermoplastic, oxygen index of 28, meets UL 94 VO, ASTM D-635
- **Safety Vent** Low-pressure release valve with flame arrester
- **Terminals** Two lead-alloy chair terminals (.5" x 1.38") for 7 and 9 plate cells
Two, 1"-square copper-inserted posts with dual-bolt holes for 11 through 25 plate cells
Four, 1"-square copper-inserted posts with dual-bolt holes for 27 through 41 plate cells
- **Intercell Connections*** Welded lead-alloy connectors for 7 and 9 plate cells
Bolt-on connectors—5/16" threaded-copper inserts for 11 through 15 plate cells
Bolt-on connectors—1"-square, copper-inserted posts for 17 through 25 plate cells

HIGH PERFORMANCE

- Up to 5800 watts/cell
- Copper-inserted posts for high-current-carrying capability**
- Square posts for dual-connector capability**
- Optimal plate and element design for high-rate performance
- Four-post design on 27 through 41 plate cells

LONG LIFE

- Bottom-pour grids for low corrosion rate and long life
- Proprietary Prelyte® gel maintains excellent interface with plate surface
- 20-year design life
- Flame arrester and low-pressure vent assembly
- High-temperature capabilities with gelled electrolyte

LOW MAINTENANCE

- No acid-level checks required
- No water addition required
- No special ventilation required under normal operating conditions
- Copper-to-copper connections for minimal retorquing requirements**

* See RS-1476 for connection hardware details

** 11 through 41 plate cells

Nom. volts	Type of cell unit	Pos. plates cell	Nominal rates to 1.75 Vpc avg. 1.290 Sp. Gr. @ 77F (25C) (includes connector voltage drop)							Overall dimensions			Approximate weight lbs (kg)	
			Amperes							L in (mm)	W in (mm)	H in (mm)	Net filled	Dom. packed
			8 Hr	5 Hr	3 Hr	1 Hr	30 Min	15 Min	1 Min					
8	4XLB-7	3	41	61	93	211	316	416	550	10.08 (256)	14.13 (359)	22.16 (563)	254 (115)	269 (122)
8	4XLB-9	4	55	81	124	281	422	555	733				304 (138)	319 (145)
8	4XLB-11	5	68	102	155	352	527	694	917	15.00 (381)	14.13 (359)	22.40 (569)	432 (196)	444 (202)
8	4XLB-13	6	82	122	186	422	633	832	1100				482 (219)	499 (227)
8	4XLB-15	7	96	142	217	492	738	971	1283				535 (243)	549 (250)
4	2XLB-17	8	109	163	248	563	844	1110	1467				342 (155)	359 (163)
4	2XLB-19	9	123	183	279	633	949	1248	1650				365 (166)	382 (174)
4	2XLB-21	10	137	203	310	703	1055	1387	1834	12.09 (307)	14.13 (359)	22.40 (569)	390 (177)	407 (185)
4	2XLB-23	11	150	224	341	774	1160	1526	2017				415 (189)	432 (196)
4	2XLB-25	12	161	239	365	824	1236	1625	2148				440 (200)	457 (208)
2	XLB-27*	13	178	264	403	914	1371	1803	2384				248 (113)	264 (120)
2	XLB-29*	14	191	285	434	985	1476	1942	2567				7.63 (194)	14.13 (359)
2	XLB-31*	15	205	305	465	1055	1582	2081	2750	8.88 (226)	14.13 (359)	22.40 (569)	283 (129)	300 (136)
2	XLB-33*	16	219	325	496	1125	1687	2219	2934				294 (134)	311 (141)
2	XLB-35*	17	232	346	527	1196	1793	2358	3117	10.63 (270)	14.13 (359)	22.40 (569)	317 (144)	334 (152)
2	XLB-37*	18	246	366	558	1266	1898	2497	3300				328 (149)	345 (157)
2	XLB-39*	19	260	386	589	1336	2004	2635	3484				339 (154)	356 (162)
2	XLB-41*	20	273	407	620	1407	2109	2774	3667				350 (159)	367 (167)

Note: Data based on discharge from a minimum of 72 hours on float at 77F (25C) in accordance with IEEE-450.

*Not a recognized component of Underwriters Laboratories, Inc.

XLB POWER RATINGS (EXCEPT XLB-25)

KW PER POSITIVE

Kilowatts per positive plate at 77F (25C)*

Final volts	1 Min	5 Min	10 Min	15 Min	20 Min	30 Min	60 Min	180 Min
1.81	.258	.252	.236	.219	.202	.175	.123	.057
1.78	.293	.279	.257	.235	.215	.187	.128	.059
1.75	.321	.301	.274	.250	.229	.196	.133	.060
1.70	.363	.339	.303	.273	.247	.211	.139	
1.67	.398	.360	.323	.290	.259	.219		
1.65	.411	.377	.333	.298	.268	.223		
1.63	.432	.392	.343	.307	.275	.227		
1.60	.453	.414	.354	.314	.281	.232		

*Based on calculated average volts during a constant current discharge

XLB-25 POWER RATINGS

KW PER POSITIVE

Kilowatts per positive plate at 77F (25C)*

Final volts	1 Min	5 Min	10 Min	15 Min	20 Min	30 Min	60 Min	180 Min
1.81	.253	.246	.231	.214	.198	.171	.120	.056
1.78	.286	.273	.251	.230	.210	.183	.126	.058
1.75	.314	.295	.268	.245	.224	.192	.130	.059
1.70	.355	.332	.297	.267	.242	.206	.136	
1.67	.390	.352	.316	.284	.254	.214		
1.65	.403	.369	.326	.292	.262	.219		
1.63	.423	.384	.336	.300	.269	.222		
1.60	.444	.405	.347	.307	.275	.227		

*Based on calculated average volts during a constant current discharge

For information on battery racks, please refer to brochure 12-560.

POWERCOM DIVISION

1400 UNION MEETING ROAD
P.O. BOX 3053
BLUE BELL, PA 19422-0858
(215) 619-2700 • FAX (215) 619-7899
(800) 543-8630
powercom@cdtechno.com
www.cdpowercom.com

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