LCZ Lead-Calcium Battery

FOR TELECOMMUNICATIONS

Capacities from 840 to 2320 Ampere-hours

C&D Technologies flooded batteries are engineered to provide superior performance and reliability over the life of the product. These batteries are designed using proprietary techniques and quality components and materials for reduced maintenance and extended battery life.

EVERY BATTERY 100% CAPACITY TESTED

C&D TECHNOLOGIES

FLOODED

12-1017-LCZ

FEATURES & BENEFITS

- Long life positive plates cast with a proprietary process and alloy
- Waterbath charging results in consistently formed plates for reliable performance out of the box (no cycling required in the field)
- Proprietary expander enables stable and uniform float voltages (down to 2.17 Vpc), reducing the need to equalize and resulting in proven 20-year service life
- Suspended positive plate permits free growth without pressure on jar and cover

SAFE OPERATION

Flame-retardant covers enhance battery plant safet with self-extinguishing properties LOI >32%, UL 94V-0
Low-evaporation, flame-arrester vent to extend watering intervals and prevent external sparks from reacting with the hydrogen inside the cell
NEBS approved battery systems (cells and racks) that meet telecom companies' specifications
Narrow 17" (43.18 cm) depth racks available – NEBS qualified

COST SAVINGS

Transparent container allows visual inspection of plates
Soft rubber post seal minimizes stress on post reducing maintenance requirements
Computer controlled heli-arc welded post seals result in consistent and reliable seals for less maintenance and longer product life
No requirement for periodic specific gravity readings

SPECIFICATION

PLATE DIMENSIONS	
HEIGHT	15.00 in (381 mm)
WIDTH	12.00 in (305 mm)
POSITIVE THICKNESS	0.250 in (6.4 mm)
NEGATIVE THICKNESS	0.180 in (4.6)
OUTSIDE NEGATIVE THICKNESS	0.130 in (3.3 mm)
ELECTROLYTE HEIGHT ABOVE PLATES	2.25 in (57 mm)
SEDIMENT SPACE	0.63 in (16 mm)
SPECIFIC GRAVITY	1.215 nominal @77°F (25°C)
CONTAINER †	Transparent thermoplastic
CELL COVER	High-impact, flame-retardant thermoplastic with tongue-and-groove seal. Flammability ratings UL 94-V0; ASTM-D635, Self-extinguishing
SEPARATORS	Microporous
RETAINERS	Fibrous glass mats
WITHDRAWAL TUBES	Two per cell
TERMINAL	Four 1 in (25mm) square posts per cell
VENT CAPS	Flame arrester type with dust cap
† OPTIONAL CONTAINER	Transparent, flame-retardant, polycarbonate. Flammability ratings: UL 94-V2; ASTM D-635, self-extinguishing

LEAD RETURN RECYCLE

OVERAL DIMENSIONS			APPROXIMATE WEIGHT		ELECTROLYTE PER CELL	
LENGTH IN (MM)	WIDTH IN (MM)	HEIGHT IN (MM)	NET FILLED LBS (KGS)	DOM. PACKED LBS (KGS)	LBS	KGS
13.14 (334)	14.12 (359)	22.63 (575)	438 (200)	461 (209)	90	41

NOTE: Electrolyte weighs approximately 10 lbs per gallon (1.210 kgs per liter). * Rates shown represent average values and are subject to IEEE 485 (6.2.4).

CELL TYPE	PLATES PER CELL	NOMINAL CAPACITIES TO 1.75 VPC @ 77°F (INCLUDES CONNECTOR VOLTAGE DROP)			
		AMPERE-HOURS			
CALCIUM		1 HR	3 HR	5 HR	8 HR
LCZ 2500	39	1296	2013	2285	2496

CAPACITY DATA FOR LCZ 2500

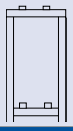
DISCHARGE END VOLTAGE	DISCHARGE - AMPERES												
	1 HR	1.5 HR	2 HR	2.5 HR	3 HR	3.5 HR	4 HR	4.5 HR	5 HR	5.5 HR	6 HR	7 HR	8 HR
1.75	1296	1051	881	763	671	600	543	498	457	425	394	350	312
1.78	1202	961	828	722	638	573	518	477	439	409	381	338	302
1.80	1140	937	695	399	616	554	502	462	428	399	372	331	295
1.81	1097	909	775	680	604	544	493	454	421	393	366	327	292
1.84	968	826	721	634	567	512	467	432	400	374	348	313	281
1.85	925	798	703	619	554	502	459	424	393	368	342	309	277
1.86	870	756	668	592	532	482	442	409	381	356	332	300	270
1.88	761	673	599	537	486	443	410	378	355	333	313	283	254
1.90	652	589	530	483	440	404	378	348	330	309	293	265	239
1.92	522	475	449	414	379	356	330	317	291	278	261	240	220

DISCHARGE END VOLTAGE	KILOWATTS PER CELL*						
	1 HR	2 HR	3 HR	4 HR	5 HR	6 HR	8 HR
1.75	2.188	1.506	1.156	0.942	0.797	0.692	0.553
1.78	2.078	1.448	1.118	0.919	0.784	0.683	0.547
1.80	2.008	1.441	1.104	0.905	0.774	0.676	0.540
1.81	1.936	1.381	1.083	0.890	0.762	0.666	0.535
1.84	1.719	1.289	1.019	0.844	0.726	0.634	0.516
1.85	1.651	1.263	1.001	0.831	0.715	0.624	0.510
1.86	1.561	1.206	0.963	0.805	0.695	0.608	0.497
1.88	1.373	1.087	0.885	0.749	0.652	0.575	0.471
1.90	1.187	0.970	0.809	0.696	0.610	0.543	0.446

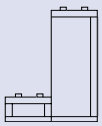
*Based on calculated average volts during constant current discharge.

RACK SPECIFICATIONS (24-CELL SYSTEM)

TWO-TIER
MODEL RDB-0901-(L)
Width: 24.06 in (611 mm)
Height: 54.00 in (1372 mm)



TWO-STEP
MODEL RDB-0903-(L)
Width: 44.75 in (1137 mm)
Height: 41.00 in (1041 mm)



LENGTH (L)		WEIGHT		NO. REQ'D	LENGTH (L)		WEIGHT		NO. REQ'D
FT	MM	LBS	KGS		FT	MM	LBS	KGS	
14	4267	470	214	1	14	4267	495	225	1

NOTES:
1. Above data is for C&D standard racks only. For Seismic zones, C&D type EP racks are available. See Section 12-560.
2. Rack lengths for other than 23/24/26-cell batteries can be calculated by the formula: Number of cells per tier or step x (L + 0.5 in) - 0.5 in = total rack length where "L" is length of cell in inches. Where dimensions are critical, check with C&D engineering.
3. Rack width does not include thickness of crossbracing. Increase width by 0.5 in (127 mm) for crossbracing when this dimension is critical.

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12-1017-LCZ_Datasheet_1_26_26