

FLOODED

**NATIONWIDE
BATTERY**

MARINE

GOLF

INDUSTRIAL

AUTO

SPECIAL
APPLICATIONS

SOLAR

LEAD-CALCIUM BATTERY

LCZ 2500

LCZ SERIES

- Voltage: 2V
- Reserve Capacity: 2496 Ah@8hr rate to 1.75VPC @ 77F (1.215 s.g.)
- Weight: 438 lbs (200 kgs)
- Length: 13.14 in (334 mm)
- Width: 14.12 in (359 mm)
- Height: 22.63 in (575 mm)
- Plates per Cell: 39
- Electrolyte: Sulfuric acid, 1.215 s.g. nominal @77°F (25°C)
- Separator: Microporous with fibrous glass mat retainers
- Container: Thermoplastic, transparent
- Cover: Thermoplastic flame-retardant, high impact (UL 94-V0)
- Recommended Float Voltage: 2.20-2.25 VPC (1.215 s.g.)
- Terminals: Four 1 in (25mm) square lead posts per cell



LEAD-CALCIUM STATIONARY BATTERY FOR TELECOM

The LCZ 2500 battery provides unparalleled reliability and performance over the entire life of the battery. Proprietary manufacturing techniques paired with high-quality components ensure a long battery life with reduced maintenance.

MODEL **LCZ 2500**
 VOLTAGE **2V**
 CAPACITY **2496Ah @ hrto 1.75VPC (1.215 s.g.)**
 CONTAINER **Thermoplastic, transparent**
 COVER **Thermoplastic flame-retardant, high impact (UL 94-V0)**
 BATTERY TYPE **Lead-Calcium**

2V

PRODUCT + PHYSICAL SPECIFICATIONS

Serie	Model	Voltage	Cell(s)	Terminal Quantity	Dimensions ^c Inches (mm)			Weight Lbs. (kg)
LCZ	LCZ 2500	2	1	4	Length	Width	Height ^f	438 (200)
					13.14 (334)	14.12 (359)	22.63 (575)	

ELECTRICAL SPECIFICATIONS

		NOMINAL RATE @ 77F (+25C) IN 1.215 SPECIFIC GRAVITY									
		AMPERES									
		1 HR	1.5 HR	2 HR	2.5 HR	3 HR	4 HR	5 HR	6 HR	7 HR	8 HR
1.75	2496	1296	1051	881	763	671	543	457	394	350	312
1.78	2496	1202	961	828	722	638	518	439	381	338	302
1.80	2496	1140	937	695	399	616	502	428	372	331	295
1.81	2496	1097	909	775	680	604	493	421	366	327	292
1.84	2496	968	826	721	634	567	467	400	348	313	281
1.85	2496	925	798	703	619	554	459	393	342	309	277
1.86	2496	870	756	668	592	532	442	381	332	300	270
1.88	2496	761	673	599	537	486	410	355	313	283	254
1.90	2496	652	589	530	483	440	378	330	293	265	239
1.92	2496	522	475	449	414	379	330	291	261	240	220

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2V

ELECTRICAL SPECIFICATIONS KWH PER CELL

VPC	Ah @ 8hr Rate	NOMINAL RATE @ 77F (+25C) IN 1.215 SPECIFIC GRAVITY									
		AMPERES									
		1 HR	-	-	-	2 HR	3 HR	4 HR	5 HR	6 HR	8 HR
1.75	2496	2.188	-	-	-	1.506	1.156	0.942	0.797	0.692	0.553
1.78	2496	2.078	-	-	-	1.448	1.118	0.919	0.784	0.683	0.547
1.80	2496	2.008	-	-	-	1.441	1.104	0.905	0.774	0.676	0.54
1.81	2496	1.936	-	-	-	1.381	1.083	0.89	0.762	0.666	0.535
1.84	2496	1.719	-	-	-	1.289	1.019	0.844	0.726	0.634	0.516
1.85	2496	1.651	-	-	-	1.263	1.001	0.831	0.715	0.624	0.51
1.86	2496	1.561	-	-	-	1.206	0.963	0.805	0.695	0.608	0.497
1.88	2496	1.373	-	-	-	1.087	0.885	0.749	0.652	0.575	0.471
1.90	2496	1.187	-	-	-	0.97	0.809	0.696	0.61	0.543	0.446

CHARGING INSTRUCTIONS

Charger Voltage Settings (at 77°F/25°C)					
System Voltage	2V	6V	24V	48V	125V
Bulk / Equalize Charge	2.35	7.05	28.20	56.40	141.00
Float Charge	2.25	6.75	27.00	54.00	135.00
High Voltage Alarm	2.45	7.35	29.40	58.80	147.00
Low Voltage Alarm	1.75	5.25	21.00	42.00	105.00
Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.					

CHARGING TEMPERATURE COMPENSATION

Add	Subtract
0.005 volt per cell for every 1°C below 25°C 0.0028 volt per cell for every 1°F below 77°F	0.005 volt per cell for every 1°C above 25°C 0.0028 volt per cell for every 1°F above 77°F

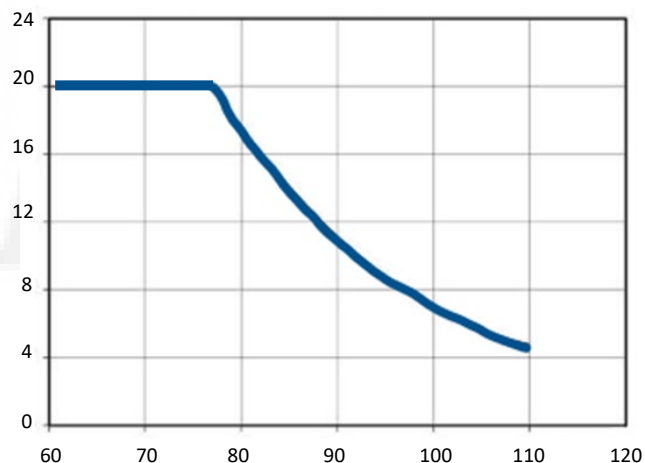
OPERATIONAL DATA

Operating Temperature	Self Discharge
Recommended operating temperature range 60F (15 C) – 90F (32 C) Limit Operating Range 32F (0 C) – 120F (49 C)	Less than 3% per month depending on storage temperature conditions

STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

Percentage Charge	Cell	Specific Gravity
100	2.06 - 2.08	1.210 - 1.220
75	2.03 - 2.04	1.185 - 1.195
50	2.00 - 2.01	1.160 - 1.170
25	1.97 - 1.98	1.135 - 1.145
0	1.95 or less	1.110 - 1.120

BATTERY LIFE v AMBIENT TEMPERATURE



LCZ 2500 Lead-Calcium Battery



FOR TELECOM, SWITCHGEAR & CONTROL, AND UPS APPLICATIONS

Capacities from 1296 to 2496 Ampere-hours

INDIVIDUAL POSTS PER CELL

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.

RELIABILITY

- Reliable tongue and groove jar-to-cover seal design provides increased adhesive coverage area — offering unprecedented seal integrity during service
- Top suspended positive plate design allows free downward growth without pressure on jar, cover, or post seal — extending reliability and product life
- Wrapped separator design extends cycle life — improving product reliability
- Enhanced post seal design allows growth without transmitting forces to cover

SAFE OPERATION

- Self-extinguishing features (LOI >32) of flame retardant (FR) cover material — providing added protection
- Low evaporation, flame arrestor vents protect against an external source igniting hydrogen gas within the cells — improving safety

COST SAVINGS

- Multi-cell design offers better space utilization and faster installation
- Transparent container allows visual inspection of plates
- C&D capacity tests every LCZ 2500 battery to 100% of 1 hr published rating which ensures 100% capacity out-of-the-box at this rate (no need to field cycle the batteries to reach rated capacity) saving time and money for users

EASY MAINTENANCE

- All posts and connectors reside above the jar cover
- Individual posts allow monitoring of individual cell performance in a multi-cell container
- Individual posts use standard lead-plated copper connectors decreasing connection resistance
- Optional terminal and connector cover available (P/N RD00907-“L”)

