

FLOODED

**NATIONWIDE
BATTERY**

MARINE

GOLF

INDUSTRIAL

AUTO

SPECIAL
APPLICATIONS

SOLAR

LEAD-CALCIUM BATTERY

2LCT-840

LCT SERIES

- Voltage: 4V
- Reserve Capacity: 840 Ah@8hr rate to 1.75VPC @ 77F
- Weight: 322 lbs (146 kg)
- Length: 12.10 in (307 mm)
- Width: 14.12 in (359 mm)
- Height: 22.70 in (557 mm)
- Positive Plate Thickness: 0.312 in (7.9 mm)
- Negative Plate Thickness: 0.210 in (5.3 mm)
- Separator: Microporous with fibrous glass mat
- Container: Thermoplastic, transparent, polycarbonate and SAN available
- Cover: High-impact, flame-retardant thermoplastic (PVC), tongue-and-groove seal.
UL 94V-0; LOI >32; ASTM D-635 self-extinguishing
- Recommended Float Voltage: 2.20-2.23 V/cell (calcium)
- Terminals: Four, 1-in (25 mm) square posts/cell



FOR TELECOMMUNICATIONS APPLICATIONS

The NEBS-approved LCT lead-calcium battery excels in Telecom applications. Built with C&D's proprietary technology and quality materials to ensure a reliable and long battery life.

MODEL **2LCT-840**
 VOLTAGE **4V**
 CAPACITY **840Ah @ 8hr to 1.75VPC**
 CONTAINER **Thermoplastic, transparent, polycarbonate and SAN available**
 COVER **High-impact, flame-retardant thermoplastic (PVC), tongue-and-groove seal. UL 94V-0;**
 BATTERY TYPE **LOI >32; ASTM D-635 self-extinguishing**
 PLATES PER CELL **Lead-Calcium**
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4V

PRODUCT + PHYSICAL SPECIFICATIONS

Serie	Model	Voltage	Cell(s)	Terminal Quantity	Dimensions ^c Inches (mm)			Weight Lbs. (kg)
					Length	Width	Height ^f	
LCT	2LCT-840	4	2	4	12.10 (307)	14.12 (359)	22.70 (557)	322 (146)

ELECTRICAL SPECIFICATIONS

VPC	30 MIN	NOMINAL RATE @ 77F (+25C) IN 1.215 SPECIFIC GRAVITY (INCLUDES CONNECTION DROP)								
		AMPERES (per cell)								
		1 HR	2 HR	3 HR	4 HR	5 HR	6 HR	8 HR	10 HR	24 HR
1.75	476	380	264	206	171	147	129	105	88	43
1.80	399	333	243	193	161	139	123	100	84	41
1.84	336	288	220	177	150	130	115	94	80	39
1.86	302	263	205	167	142	124	110	90	76	38
1.88	267	236	188	156	133	116	103	85	72	36
1.90	232	210	172	143	123	108	96	88	67	34

CHARGING INSTRUCTIONS

Charger Voltage Settings (at 77°F/25°C)					
System Voltage	2V	4V	24V	48V	125V
Bulk / Equalize Charge	2.35	4.70	28.20	56.40	141.00
Float Charge	2.22	4.44	26.64	53.28	133.20
High Voltage Alarm	2.45	4.90	29.40	58.80	147.00
Low Voltage Alarm	1.75	3.50	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

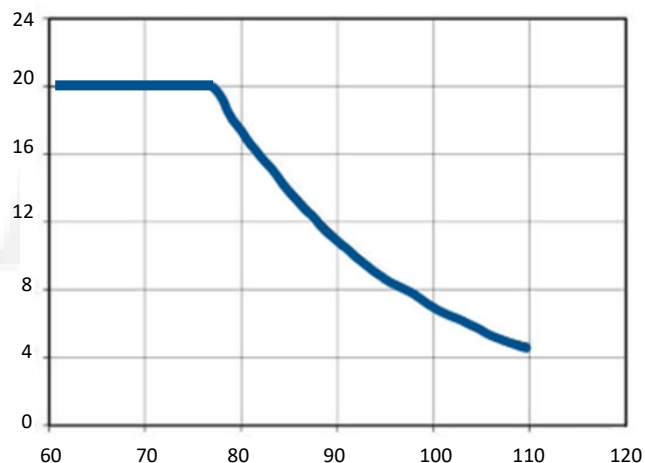
OPERATIONAL DATA

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



FOR TELECOMMUNICATIONS APPLICATIONS

Capacity: 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.

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 safety 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

APPLICATIONS

- Telephone Central Offices
- Mobile Telephone Switching Office
- Cable Head End Sites
- Fiber Optic Regenerator Sites
- Microwave Repeater Sites
- Telephone & Internet Network Nodes