

FLOODED



LEAD-CALCIUM BATTERY LCT-2016

MARINE

GOLF

INDUSTRIAL

AUTO

SPECIAL
APPLICATIONS

SOLAR

LCT SERIES

- Voltage: 2V
- Reserve Capacity: 2016 Ah@8hr rate to 1.75VPC @ 77F
- Weight: 362 lbs (164 kg)
- Plates per Cell: 25
- Electrolyte per Cell: 10.0 gal (37.9 L)
- Electrolyte Height Above Plates: 2.875 in (73 mm)
- Positive Plate Thickness: 0.312 in (7.9 mm)
- Negative Plate Thickness: 0.210 in (5.3 mm)
- Outside Negative Plate Thickness: 0.120 in (3.1 mm)
- Sediment Space: 0.63 in. (16 mm)
- Safety Vent System: Flame-arrester type
- Withdrawal Tube: Two per cell
- 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
- Float Voltage: 2.20–2.23 volts per cell
- 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 **LCT-2016**
 VOLTAGE **2V**
 CAPACITY **2016Ah @ 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**
25

2V

PRODUCT + PHYSICAL SPECIFICATIONS

Serie	Model	Voltage	Cell(s)	Terminal Quantity	Dimensions ^c Inches (mm)			Weight Lbs. (kg)
					Length	Width	Height ^f	
LCT	LCT-2016	2	—	4	13.14 (334)	14.12 (359)	22.70 (557)	362 (164)

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	1142	913	634	494	409	352	310	252	212	103
1.80	958	799	584	463	386	333	294	239	202	99
1.84	806	691	527	426	359	311	276	225	191	94
1.86	724	630	491	402	341	297	263	216	183	91
1.88	640	565	451	374	319	279	248	204	173	86
1.90	557	503	412	344	295	258	230	212	161	81

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

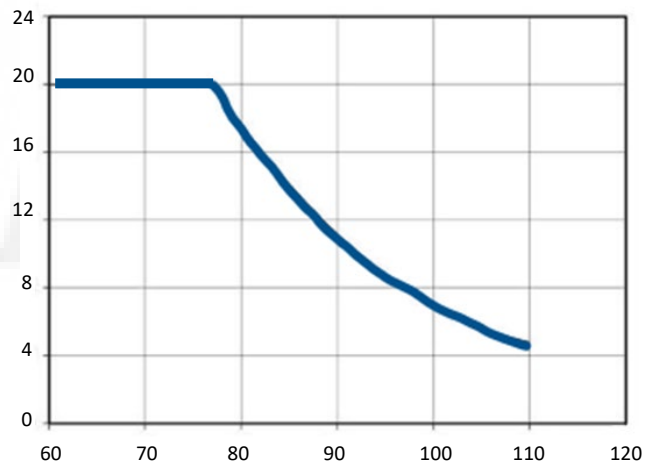
OPERATIONAL DATA

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: 2016 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