



# **KCT** Lead-Calcium **KT** Lead-Antimony

## **FOR TELECOMMUNICATIONS APPLICATIONS**

Capacities from 270 to 720 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.



### **APPLICATIONS**

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

### **FEATURES & BENEFITS**

- Electrical testing (capacity test) on every cell prior to shipping assures performance of every battery upon delivery.
- Proprietary vacuum-assisted, bottom-pour, positive-grid casting assures void-free grid quality resulting in 20 year service life.
- Waterbath charging results in consistently formed plates for reliable performance out of the box (no cycling required in the field).
- Suspended positive plates permit free growth without pressure on jar and cover.

### **SAFE OPERATION**

- Standard 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.

### **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.

## SPECIFICATIONS

Plates	Height	Width	Thickness
Positive	11.38 in (289 mm)	8.75 in (222 mm)	0.312 in (7.90 mm)
Negative	11.38 in (289 mm)	8.75 in (222 mm)	0.210 in (5.30 mm)
Outside Negative	11.38 in (289 mm)	8.75 in (222 mm)	0.120 in (3.10 mm)
Electrolyte height above plates	2.06 in (52 mm)		
Sediment space	0.75 in (19 mm)		
Electrolyte @ 77°F (25°C)	Sulfuric acid, 1.215 specific gravity nominal		
Recommended Float voltages	2.17 - 2.22 volts per cell (calcium); 2.15-2.18 volts per cell (antimony)		
Container *	Thermoplastic, transparent, (SAN)		
Cover	High-impact, flame-retardant thermoplastic (PVC), with tongue-and-groove seal. Flammability ratings: UL 94-V0; LOT>32; ASTM D-635 self-extinguishing		
Separator	Microporous with fibrous glass mat		
Safety Vent Systems	Flame-arrester type		
Terminals	Two, 1-in (25 mm) square posts with 2 cross-bolt holes.		
Withdraw tubes, Optional	Two per cell. (Add 'T' to CW number)		
* Optional container	Transparent, flame-retardant polycarbonate. Flammability ratings: UL 94-HB; PVC available for KCT-540 only		

Model of Battery		Cells per unit	Plates per cell	Overall Dimensions			Approx. wt. - lbs (kgs)		Electrolyte per cell lbs (kgs)	CPR code number (KCT only)
Calcium	Antimony			L	W	H	Net	Dom.		
KCT-270	KT-270	1	7	in (mm) 3.62 (92)	10.44 (265)	18.25 (464)	filled 57 (25.9)	Packed 74 (33.6)	15 (6.8)	162231
KCT-360	KT-360	1	9	4.62 (117)			77 (34.9)	95 (43.1)	20 (9.1)	569638
KCT-450	KT-450	1	11	5.59 (142)			94 (42.6)	109 (49.5)	25 (11.3)	169272
KCT-540	KT-540	1	13	6.59 (167)			111 (50.3)	131 (59.4)	29 (13.2)	169273
KCT-660	KT-660	1	15	8.53 (217)			136 (61.7)	158 (71.7)	40 (18.1)	063783
KCT-720	KT-720	1	17	8.53 (217)			143 (64.9)	165 (74.8)	38 (17.2)	269106

Note: Electrolyte weighs approximately 10 lbs per gallon (1.215 kgs per liter).

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

## WHAT DOES THE C&D BATTERY SELECTION APPLICATION DO?

The C&D Battery Selection Application allows users to quickly calculate many values essential for the proper selection of standby battery product via an online application. This allows users to access all the information they need to size and select the proper battery without having to download and install software.

Sign up @ [www.cdstandbypower.net](http://www.cdstandbypower.net)

### This includes the ability to:

- Select batteries based on complex step loads and generate IEEE-485 Sizing Work Sheets.
- Select batteries based on constant current loads.
- Select batteries based on constant power loads.
- View and customize rating tables.
- Do battery run time analysis.

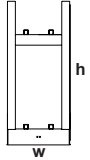
## RATINGS TABLE: AMPERES

FV/Cell	Model	8 hr-AH	Nominal Rates @ 77° F (25° C) and 1.215 Specific Gravity (includes connector voltage drop)								
			1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	24 hr
1.75	KCT/KT-270	270	121	83	66	55	48	42	34	29	14
	KCT/KT-360	360	161	111	88	73	63	56	45	39	19
	KCT/KT-450	450	201	139	110	92	79	70	57	48	24
	KCT/KT-540	540	241	167	132	110	95	84	68	58	28
	KCT/KT-660	660	283	199	158	133	116	102	83	71	35
1.80	KCT/KT-270	264	112	79	62	52	45	40	33	28	14
	KCT/KT-360	344	149	105	83	70	60	53	43	37	18
	KCT/KT-450	432	187	132	104	87	75	67	54	46	23
	KCT/KT-540	520	224	158	125	104	90	80	65	55	27
	KCT/KT-660	640	263	189	150	127	110	97	80	68	34
1.84	KCT/KT-270	696	299	211	166	139	120	106	87	74	36
	KCT/KT-360	248	96	71	57	48	42	37	31	26	13
	KCT/KT-450	328	128	94	76	64	56	49	41	35	18
	KCT/KT-540	408	160	118	95	80	69	62	51	43	22
	KCT/KT-660	488	193	142	113	96	83	74	61	52	26
1.86	KCT/KT-270	600	226	169	137	116	102	90	75	64	32
	KCT/KT-360	648	257	189	151	128	111	99	81	69	35
	KCT/KT-450	232	87	66	53	45	40	35	29	25	13
	KCT/KT-540	312	116	88	71	60	53	47	39	33	17
	KCT/KT-660	384	144	110	89	75	66	59	48	41	21
1.88	KCT/KT-270	464	173	132	107	91	79	70	58	50	25
	KCT/KT-360	568	203	157	129	110	96	86	71	61	31
	KCT/KT-450	616	231	175	142	121	105	94	77	66	34
	KCT/KT-540	216	75	59	49	42	37	33	27	23	12
	KCT/KT-660	296	100	79	66	56	49	44	37	31	16
1.90	KCT/KT-270	368	125	99	82	70	62	55	46	39	20
	KCT/KT-360	440	149	119	98	84	74	66	55	47	24
	KCT/KT-450	536	175	142	119	103	90	81	67	57	29
	KCT/KT-540	584	199	158	131	112	99	88	73	63	32
	KCT/KT-660	208	63	53	45	39	35	31	26	22	11
1.92	KCT/KT-270	272	84	70	60	52	46	41	34	29	15
	KCT/KT-360	344	105	88	75	65	58	52	43	37	19
	KCT/KT-450	408	126	105	90	78	69	62	51	44	22
	KCT/KT-540	504	147	125	108	95	85	76	63	53	26
	KCT/KT-660	552	167	141	120	104	92	83	69	59	30
1.92	KCT-270	177	49	42	37	32	29	26	22	19	10
	KCT-360	235	65	56	49	43	39	35	29	26	13
	KCT-450	294	82	70	61	54	48	44	37	32	17
	KCT-540	354	98	84	74	65	58	53	44	38	20
	KCT-660	432	115	100	88	79	71	64	54	47	24
	KCT-720	471	131	113	98	87	77	70	59	51	27

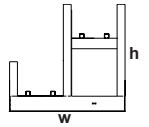
Additional ratings and application information are available in the Battery Selection Program @ [www.cdstandbypower.net](http://www.cdstandbypower.net)

Battery	Number of Cells	(L) Length		(W) Weight		No. Required	Number of Cells	(L) Length		(W) Weight		No. Required
		ft	mm	lbs	kgs			ft	mm	lbs	kgs	
KCT/KT-270	12	3	914	113	51	1	12	3	914	132	60	1
	24	5	1524	128	58	1	24	5	1524	146	66	1
KCT/KT-360	12	3	914	113	51	1	12	3	914	132	60	1
	24	6	1829	134	61	1	24	6	1829	152	69	1
KCT/KT-450	12	4	1219	121	55	1	12	4	1219	139	63	1
	24	7	2134	180	82	1	24	7	2134	208	94	1
KCT/KT-540	12	4	1219	121	55	1	12	4	1219	139	63	1
	24	7.3	2225	180	82	1	24	7.3	2225	208	94	1
KCT/KT-660	12	5	1524	128	58	1	12	5	1524	146	66	1
	24	9	2743	193	88	1	24	9	2743	222	101	1
KCT/KT-720	12	5	1524	128	58	1	12	5	1524	146	66	1
	24	9	2743	193	88	1	24	9	2743	222	101	1

**Step**  
**RDB0801-(L)**  
**Two Tier**  
**(M-11416)**  
**Width: 20.9in (513mm)**  
**Height: 45.88in (1165mm) (to top of frame)**



**RDB0803-(L)**  
**Two**  
**(M-11422)**  
**Width: 37.13in (943mm)**  
**Height: 35.88in (911mm) (to top of frame)**



**LCT II 1700**



For more than 100 years, C&D Technologies has fulfilled the vision of its founders by designing and manufacturing the finest integrated standby power products. We continue to meet the technological challenges of the future. C&D creates powerful solutions for a world in motion. **We can create solutions for you!**

**Liberty 1000**



C&D Technologies' provides power solutions and services for the telecommunications, uninterruptible power supply (UPS), energy & infrastructure as well as emerging markets. C&D Technologies engineers, manufactures, sells and services fully integrated standby backup batteries and power solutions to insure that power to the customer's critical application is uninterrupted.

**DYNASTY**

**MCT II**

Today C&D operates Worldwide with production facilities in USA, Mexico and China. We continue to be the leader in high quality, long lasting batteries for all applications. Our continued success is due to our Products, our People, our Sales Partners as well as our Loyal Customers.

**C&D TECHNOLOGIES, INC.**

1400 Union Meeting Road  
P.O. Box 3053 • Blue Bell, PA 19422-0858  
(215) 619-2700 • Fax (215) 619-7899 • (800) 543-8630  
customersvc@cdtechno.com  
www.cdtechno.com

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