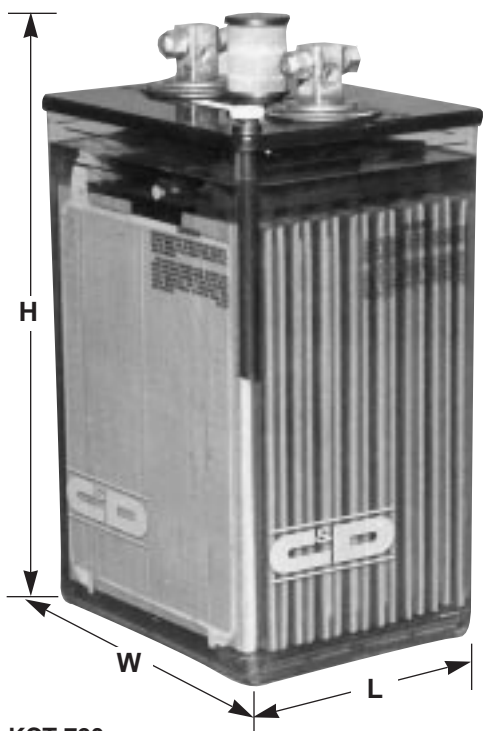


C&D TECHNOLOGIES

Power Solutions

KCT LEAD-CALCIUM KT LEAD-ANTIMONY

For telecommunications applications



KCT-720

FEATURES AND BENEFITS

- Flame-retardant covers enhance battery plant safety
- Terminals accessible for measurement of individual cell voltages
- Transparent container allows visual inspection of plates
- Low-evaporation, flame-arrester vent
- Vacuum-assisted, bottom-pour, positive-grid casting assures plate quality and long life
- Soft rubber post seal minimizes stress on post

SPECIFICATIONS

Plates	Height	Width	Thickness
Positive	11.38 in (289 mm)	8.75 in (222 mm)	0.312 in (7.9 mm)
Negative	11.38 in (289 mm)	8.75 in (222 mm)	0.210 in (5.3 mm)
Outside negative	11.38 in (289 mm)	8.75 in (222 mm)	0.130 in (3.3 mm)
Electrolyte height above plates	2.06 in (52 mm)		
Sediment space	0.75 in (19 mm)		
Electrolyte @ 77F (25C)	Sulfuric acid, 1.215 specific gravity nominal		
Float voltages	2.20–2.25 volts per cell (calcium); 2.15–2.17 volts per cell (antimony)		
Container	Thermoplastic, transparent, polycarb and SAN standard		
Cover	High-impact, flame-retardant thermoplastic (PVC), with tongue-and-groove seal. Flammability ratings: UL 94-V0; LOI > 33; ASTM D-635 self-extinguishing		
Separator	Microporous with fibrous glass mat		
Safety vent system	Flame-arrester type		
Terminals	Two, 0.50 in x 1.38 in (12.7 mm x 35 mm) cast-lead terminals for 3-cell unit (3KCT/KT-180) Two, 1-in (25 mm) square posts with 2 cross-bolt holes for all single-cell types		
Withdrawal tubes	Two per cell		

Final volts	Battery models	Nominal rates at 77F (25C) (includes connector voltage drop)* Ampere-hours							
		8 Hr	6 Hr	5 Hr	4 Hr	3 Hr	2 Hr	1 Hr	.5 Hr
1.95	3KCT/3KT-180	86.6	75.0	70.0	60.0	50.0	36.6	20.0	10.0
	KCT/KT-270	129.9	112.5	105.0	90.0	75.0	54.9	30.0	15.0
	KCT/KT-360	173.2	150.0	140.0	120.0	100.0	73.2	40.0	20.0
	KCT/KT-450	216.5	187.5	175.0	150.0	125.0	91.5	50.0	25.0
	KCT/KT-540	259.8	225.0	210.0	180.0	150.0	109.8	60.0	30.0
	KCT/KT-660	317.3	275.6	257.3	218.4	182.0	133.2	70.0	35.0
	KCT/KT-720	346.4	300.0	280.0	240.0	200.0	146.4	80.0	40.0
1.90	3KCT/3KT-180	136.6	125.0	115.0	105.0	90.0	70.0	43.4	25.0
	KCT/KT-270	204.9	187.5	172.5	157.5	135.0	105.0	65.1	37.5
	KCT/KT-360	273.2	250.0	230.0	210.0	180.0	140.0	86.8	50.0
	KCT/KT-450	341.5	312.5	287.5	262.5	225.0	175.0	108.5	62.5
	KCT/KT-540	409.8	375.0	345.0	315.0	270.0	210.0	130.2	75.0
	KCT/KT-660	500.6	459.4	422.6	382.2	327.6	254.8	151.9	87.5
	KCT/KT-720	546.4	500.0	460.0	420.0	360.0	280.0	173.6	100.0
1.85	3KCT/3KT-180	160.0	145.0	135.0	125.0	110.0	92.0	62.0	36.6
	KCT/KT-270	240.0	217.5	202.5	187.5	165.0	138.0	93.0	54.9
	KCT/KT-360	320.0	290.0	270.0	250.0	220.0	184.0	124.0	73.2
	KCT/KT-450	400.0	362.5	337.5	312.5	275.0	230.0	155.0	91.5
	KCT/KT-540	480.0	435.0	405.0	375.0	330.0	276.0	186.0	109.8
	KCT/KT-660	586.3	532.9	496.1	455.0	400.4	334.9	217.0	128.1
	KCT/KT-720	640.0	580.0	540.0	500.0	440.0	368.0	248.0	146.4
1.80	3KCT/3KT-180	172.0	160.0	150.0	140.0	125.0	105.0	75.0	48.4
	KCT/KT-270	258.0	240.0	225.0	210.0	187.5	157.5	112.5	72.6
	KCT/KT-360	344.0	320.0	300.0	280.0	250.0	210.0	150.0	96.8
	KCT/KT-450	430.0	400.0	375.0	350.0	312.5	262.5	187.5	121.0
	KCT/KT-540	516.0	480.0	450.0	420.0	375.0	315.0	225.0	145.2
	KCT/KT-660	630.3	588.0	551.3	509.6	455.0	382.2	262.5	169.4
	KCT/KT-720	688.0	640.0	600.0	560.0	500.0	420.0	300.0	193.6
1.75	3KCT/3KT-180	180.0	168.4	157.0	146.6	132.0	112.0	81.0	55.0
	KCT/KT-270	270.0	252.6	235.5	219.9	198.0	168.0	121.5	82.5
	KCT/KT-360	360.0	336.8	314.0	293.2	264.0	224.0	162.0	110.0
	KCT/KT-450	450.0	421.0	392.5	366.5	330.0	280.0	202.5	137.5
	KCT/KT-540	540.0	505.2	471.0	439.8	396.0	336.0	243.0	165.0
	KCT/KT-660	659.6	618.9	577.0	533.6	480.5	407.7	283.5	192.5
	KCT/KT-720	720.0	673.6	628.0	586.4	528.0	448.0	324.0	220.0

*Rates shown represent average values and are subject to IEEE-485 (6.2.4).

Type of battery		Cells per unit	Plates per cell	Overall dimensions			Approx. wt. lbs (kgs)		Elec-trolyte per cell lbs (kgs)	Pure sulfuric acid per cell lbs (kgs)	CPR code number (KCT only)
Calcium	Antimony			L in (mm)	W in (mm)	H in (mm)	Net filled	Dom. packed			
3KCT-180	3KT-180	3	5	8.53 (217)	10.44 (265)	18.25 (464)	128 (58.1)	150 (68.0)	13 (5.9)	3.9 (1.7)	260315
KCT-270	KT-270	1	7	3.62 (91.1)			57 (25.9)	74 (33.6)	15 (6.8)	4.5 (2.0)	162231
KCT-360	KT-360	1	9	4.62 (117)			77 (34.9)	95 (43.1)	20 (9.1)	6.0 (2.7)	569638
KCT-450	KT-450	1	11	5.59 (142)			94 (42.6)	109 (49.5)	25 (11.3)	7.5 (3.4)	169272
KCT-540	KT-540	1	13	6.59 (167)			111 (50.3)	131 (59.4)	29 (13.2)	8.7 (3.9)	169273
KCT-660	KT-660	1	15	8.53 (217)			136 (61.7)	148 (67.3)	40 (18.1)	12.0 (5.4)	063783
KCT-720	KT-720	1	17	8.53 (217)			143 (64.9)	165 (74.8)	38 (17.2)	11.4 (5.1)	269106

NOTE: Electrolyte weighs approximately 10 lbs per gallon (1.210 kgs per liter).

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

POWERCOM DIVISION

1400 UNION MEETING ROAD
P.O. BOX 3053
BLUE BELL, PA 19422-0858
(215) 619-2700 • FAX (215) 619-7899
(800) 543-8630
powercom@cdtechno.com
www.cdpowercom.com

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