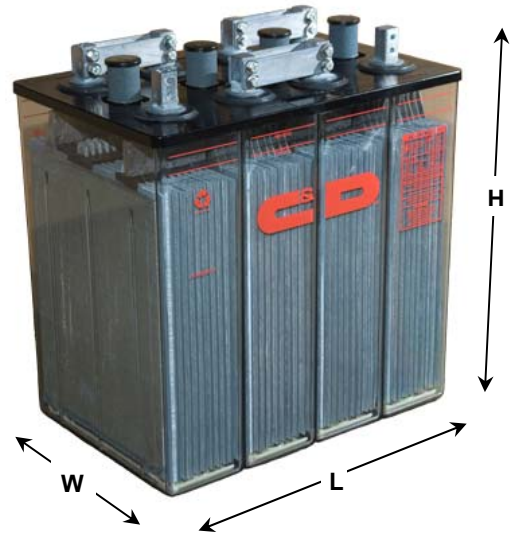


All Batteries
Capacity tested to
100%



XT[®] SERIES

**LEAD CALCIUM BATTERIES FOR
UPS AND SWITCHGEAR APPLICATIONS**
CAPACITIES FROM 0.370 TO 7.523 KILOWATTS PER CELL



C&D Technologies' Power Systems Division 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.

Sites that use XT Series batteries include:

- **Data centers**
- **Network Operations Centers**
- **Industrial Process Control Facilities**
- **Internet Hosting Sites**
- **Semiconductor Manufacturing**
- **Banks & Financial Markets**
- **Power Generation Plants**
- **Hospitals & Testing Laboratories**
- **Emergency 911 Response Centers**

FEATURES & BENEFITS

- Low-maintenance lead-calcium alloy extends watering intervals
- Design is optimized for high-rate, short duration discharges
- Soft rubber post bushing minimizes stress on post seal, leak-free design using heli-arc process unique to C&D
- Flame retardant covers standard to enhance battery plant safety
- Electrical testing to 100% capacity assures performance of every battery
- Warranty for cycle duty or float service is available
- Hardened, lead-alloy terminals or copper-inserted posts provide better conductivity and tighter connections requiring less maintenance
- 20 year life expectancy in float service at 77°F (25°C) ambient temperature

XT

- Proven quality
- High performance
- Fully tested
- Wide range of KW ratings
- Higher ratings and lower cost than XT-Plus

XT Plus

- All the benefits of the XT PLUS
- More available discharge cycles

XT Plus is ideal for sites with frequent blackouts and brownouts or locations that require the batteries to be cycled frequently to test other system components.

XTH

- Less rack space required
- Higher power density
- Minimized maintenance
- Available in both XT and XT Plus versions

XTH jars provide greater floor space utilization, saving up to 20% in rack length. Maintenance clean-up activities are minimized due to wells around flame arrestors that catch drips and spills.

WARRANTY CRITERIA FOR LIMITED CYCLE SERVICE

Duration of discharge	Warranted cycle life
0.0 to 0.5 minutes	2,700 events
0.5 to 1.5 minutes	525 events
1.5 to 4.0 minutes	206 events
4.0 to 15.0 minutes	94 events

Based on discharges at 15 minute rate to minimum voltage of 1.67 Vpc

WARRANTY CRITERIA FOR LIMITED CYCLE SERVICE

Duration of discharge	Warranted cycle life
0.0 to 0.5 minutes	10,500 events
0.5 to 1.5 minutes	2,100 events
1.5 to 4.0 minutes	660 events
4.0 to 15.0 minutes	300 events

Based on discharges at 15 minute rate to minimum voltage of 1.67 Vpc

Rack Sizing Guide for XT & XT Plus Batteries				Model																	
				XT4L-7, -9 XT4LP-7, -9	4XTH-11, -13 4XTHP-11, -13	4XTH-15 4XTHP-15	4XTH-17 4XTHP-17	4XTH-19 4XTHP-19	4XTH-21 4XTHP-21	4XTH-23 4XTHP-23	2XTH-25 2XTHP-25	2XTH-27 2XTHP-27	2XTH-29, -31 2XTHP-29, -31	2XTH-33 2XTHP-33	XT1L-35, -37, -39, -41 XT1LP-35, -37, -39, -41	XT1L-43, -45, -47, -49, -51, -53 XT1LP-43, -45, -47, -49, -51, -53					
Rack Length (ft)	Cells per Unit			4	4	4	4	4	4	2	2	2	2	1	1						
	Unit Length (in)			10.08	16.10	19.27	21.06	12.56	15.27	10.62	13.14										
	Available RDB Racks			Maximum Number of Units per Tier																	
	√ = UBC 1994 EP1, EP2 & non-seismic available																				
1 Tier			2 Tier			3 Tier															
3	√	√	√	3	2	2*	2*	1	1	1	2	2	2	2*	3	2					
4	√	√	√	4	2	2	2	2	2	2	3	3	3	3*	4	3					
5	√	√	√	5	3	3	3	3*	3*	2	4	4	3	3	5	4					
6	√	√	√	6	4	4	4	3	3	3	5	5	4	4	6	5					
7	√	√	√	7	5	5	5*	4	4	3	6	6	5	5	7	6					
8	√	√	√	9	5	5	5	4	4	4	7	7	6	6*	8	7					
9	√	√	√	10	6	6	6	5	5	5*	8	8	6	6	9	7					
10	√	√	√	11	7	7	7*	6	6*	5	9	9*	7	7	10	8					
11	√	√	√	12	7	7	7	6	6	6*	10	10*	8	8	11	9					
12	√	√	√	13	8	8	8	7	7	6	11	11*	9	9*	12	10					
13	√	√	√	14	9	9	9	7	7	7	11	11	9	9	14	11					
14	√	√	√	15	10	10	10*	8	8	7	12	12	10	10	15	12					
15	√	√	√	17	10	10	10	9	9*	8	13	13	11	11	16	13					
16	√	√	√	18	11	11	11	9	9	8	14	14	12	12	17	14					
16.5	√	√	√	18	11	11	11	9	9	9*	15	15*	12	12	17	14					
17	√	√	√	19	12	12	12	10	10	9	15	15	12	12	18	14					
18	√	√	√	20	13	13	13*	10	10	10*	16	16	13	13	19	15					
19		√	EP1 only	21	13	13	13	11	11	10	17	17	14	14	20	16					
20		√		22	14	14	14	12	12	10	18	18*	15	15	21	17					

* UBC 1994 Zone 4 available with added tie rod assemblies on identified configurations.

UBC 1997 Zone compliance available with tie rod kit addition on all models as well.

Note: For batteries weighing over 600 lbs each, third rail kits for the racks are recommended.

SPECIFICATIONS

Recommended Float Voltages XTJ, XTL, XTH, XTLP and XTHP XTJC, XTLC, XTHC, XTLP and XTHCP	2.21 - 2.22 volts per cell (1.215 specific gravity) 2.25 - 2.26 volts per cell (1.250 specific gravity)
Electrolyte @ 77°F (25°C) XTL, XTH, XTLP and XTHP XTLC, XTHC, XTLP and XTHCP	Sulfuric acid, 1.215 specific gravity nominal Sulfuric acid, 1.250 specific gravity nominal
Cover	High-impact, flame retardant thermoplastic, with tongue-and-groove seal. Flammability ratings: UL 94V-0; ASTM D-635, self-extinguishing. Oxygen index > 32
Electrolyte Withdrawal Tubes XTJ XTH (two and four cell) XTL (single cell, -35 through -41, SAN Jar) XTL (single cell, -35 through -53 Polycarbonate Jar, -43 through -53 SAN Jar) XTL (four-cell units)	None 1 per cell, Plug is Standard, Tube is Optional and must be specified at time of order 2 per cell, Plug is Standard, Tube is Optional and must be specified at time of order 2 per cell 1 per cell
Container	Thermoplastic, transparent
Optional Container	Transparent, flame-retardant polycarbonate. LOI = 25. Flammability ratings: UL 94-HB; ASTM D-635-68, self-extinguishing
Separator XTJ, XTL and XTH XTLP and XTHP	Microporus with fiberglass retaining mat Microporus with fiberglass retaining U-wrapped around positive plates
Safety Vent System	Flame-arrester with dust cover
Terminals XTJ, XTL and XTLP (7 and 9 plate) XTH and XTHP (11 through 23 plates) XTH and XTHP (25 & 27 plates) XTH and XTHP (29 through 33 plates) XTL and XTLP (35 through 41 plates) XTL and XTLP (43 through 53 plates)	Two, hardened, lead-alloy chair terminals per unit Two, 1-in square, copper-inserted posts with dual-bolt holes per cell Two, 5/8 x 2 in copper blade posts with dual-bolt holes per cell Four, 1-in square, copper-inserted posts with dual-bolt holes per cell Four, 1-in square, copper-inserted posts with dual-bolt holes per cell Six, 1-in square, copper-inserted posts with dual-bolt holes per cell
Intercell connectors* XTJ, XTL and XTLP (7 through 9 plates) XTH and XTHP (11 through 23, 29 through 33 plates) XTH and XTHP (25 through 27 plates) XTL and XTLP (35 through 53 plates)	Welded connectors Bolt-on connectors—1-in square, copper inserted posts Bolt-on connectors—5/8 x 2 in copper blade post N/A
Hardware Torque Requirements	Initial Torque 160 inch-pounds Maintenance Torque 125 inch-pounds

* See RS-1476 for connection hardware details

Additional product details available on the C&D Battery Sizing program at www.cdstandbypower.net

XT			XT-Plus			Nom. Volts	Unit Dimensions				Unit Weight				Electrolyte per cell			
Models	Nom. Amp-Hrs†	Kilowatts Per Cell††	Models	Nom. Amp-Hrs†	Kilowatts Per Cell††		L		W		H		Net Filled		Dom. Packed		lbs	kgs
							in	mm	in	mm	in	mm	lbs	kgs	lbs	kgs		
XT4J-7	108	0.397				8						113	51	122	55	6.8	3.1	
XT4J-9	142	0.524				8	10.28	261	10	254	14.81	376	129	59	138	63	6.3	2.9
XT4J-11	174	0.643				8							145	66	154	70	5.8	2.6
XT4L-07	306	0.941	XT4LP-07	290	0.894	8	10.08	256	14.12	359	22.75	578	254	115	289	122	15	6.8
XT4L-09	404	1.242	XT4LP-09	383	1.18	8							304	138	319	145	14	6.4
4XTH-11	508	1.413	4XTHP-11	508	1.413	8							479	217	497	225	41	18.6
4XTH-13	610	1.695	4XTHP-13	610	1.695	8	16.1	409					520	236	538	244	39	17.7
4XTH-15	711	1.978	4XTHP-15	711	1.978	8							550	249	568	258	33	15.0
4XTH-17	778	2.167	4XTHP-17	778	2.167	8							585	265	603	274	29	13.2
4XTH-19	914	2.543	4XTHP-19	914	2.543	8	19.27	489					645	293	663	301	32	14.5
4XTH-21	972	2.709	4XTHP-21	972	2.709	8							690	313	708	321	30	13.6
4XTH-23	1069	2.980	4XTHP-23	1069	2.98	8	21.06	535	14.32	364	22.92	582	760	345	778	353	28	12.7
2XTH-25	1218	3.391	2XTHP-25	1218	3.391	4	12.56	319					435	197	453	205	39	17.7
2XTH-27	1263	3.521	2XTHP-27	1263	3.521	4							465	211	483	219	37	16.8
2XTH-29	1422	3.956	2XTHP-29	1422	3.956	4							504	229	522	237	44	20.0
2XTH-31	1523	4.238	2XTHP-31	1523	4.238	4	15.27	388					525	238	543	246	42	19.1
2XTH-33	1555	4.334	2XTHP-33	1555	4.334	4							550	249	568	258	41	18.6
XT1L-35	1806	5.214	XT1LP-35	1732	4.953	2	10.62	270					317	144	334	152	58	26.3
XT1L-37	1904	5.521	XT1LP-37	1834	5.245	2							328	149	345	156	56	25.4
XT1L-39	2019	5.827	XT1LP-39	1936	5.536	2							339	154	356	161	54	24.5
XT1L-41	2085	6.018	XT1LP-41	1999	5.717	2							350	159	367	166	52	23.6
XT1L-43	2190	6.319	XT1LP-43	2099	6.003	2							416	189	434	197	86	39.0
XT1L-45	2294	6.620	XT1LP-45	2199	6.289	2			14.12	359	22.75	578	427	194	445	202	84	38.1
XT1L-47	2374	6.854	XT1LP-47	2277	6.512	2	13.14	334					438	199	456	207	82	37.2
XT1L-49	2454	7.083	XT1LP-49	2353	6.729	2							449	204	467	212	80	36.3
XT1L-51	2531	7.306	XT1LP-51	2427	6.941	2							460	209	478	217	78	35.4
XT1L-53	2606	7.523	XT1LP-53	2499	7.147	2							471	214	489	222	76	34.5

† 8 Hour rate to 1.75 Vpc at 77°F (25°C), 1.215 Specific Gravity
†† 15 min rate to 1.67 Vpc at 77°F (25°C), 1.250 Specific Gravity

C&D TECHNOLOGIES EXPERIENCE WITH A PROUD HISTORY

C&D started in 1906 as the dream of two high school students named Frank Carlile and Leon Doughty in Conshohocken, PA. under the name C&D Electrical. Since then, C&D has been a leader in advancing battery technology, including being the first battery manufacturer to successfully manufacture flooded lead calcium batteries. C&D promoted acceptance of Lead Calcium through consistent quality and reliable performance so it is now considered the standard for reserve power applications. C&D also leads the way in bringing advanced technology VRLA batteries to the market with the lowest float current battery on the market without requiring expensive catalysts.



Today, C&D operates Worldwide with over 3,000 employees. C&D products provide reserve power systems to leading operators of telecommunications, data transmission, infrastructure computer systems and utilities to enable them to maintain critical operations during power outages. Since the inception of the UPS industry, C&D has provided back-up batteries designed specifically for UPS applications and can be found in UPS systems around the world. We currently provide back-up power for every major bank, financial institution and telecommunications provider in North America.

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 and our Sales Partners. However, we could not have stayed in business 100 years without our Loyal Customers. For them our focus is on providing the best quality products at competitive prices, with the service and support that they demand, and to which they are entitled. For our customers, C&D stands for Commitment & Dedication to quality, reliability, and service.

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