

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' 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

SPECIFICATIONS

Recommended Float Voltages XTJ, XTL, XTH, XTLP and XTHP XTJC, XTLC, XTHC, XTLCPC 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) XTJ, XTL, XTH, XTLP and XTHP XTJC, XTLC, XTHC, XTLCPC 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 Withdrawl Tubes XTJ XTH (two and four cells) XTL (single cell, -35 through -53) XTL (two-cell units -23 through -25)	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 1 per cell, Plug is Standard, Tube is Optional and must be specified at time of order
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	Microporous with fiberglass retaining mat Microporous with fiberglass retaining mat; U-wrapped around positive plates
Safety Vent Systems	Flame-arrester with dust cover
Terminals XTJ, XTH and XTHP (7 and 9 plate) XTH and XTHP (11 through 23 plates) XTH and XTHP (25 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, 3/8 x 1 1/4 in copper blade posts with dual-bolt holes per cell Two, 5/8 x 2 in copper blade posts with dual-bolt holes per cell Two, 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
Interconnectors* XTJ, XTH and XTHP (7 and 9 plate) XTH and XTHP (11 through 23 plates) XTH and XTHP (25 through 33 plates) XTL and XTLP (35 through 41 plates) XTL and XTLP (43 through 53 plates)	Welded connectors Bolt-on connectors — 3/8 x 1 1/4 in copper blade post Bolt-on connectors — 5/8 x 2 in copper blade post Bolt-on connectors — 1 in square, copper inserted post N/A
Hardware Torque Requirements	Initial Torque 160 inch-pounds Maintenance Torque 125 inch-pound

*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. †	Models	Nom. Amp-Hrs. †		L		W		H		Net Filled		Dom. Packed		lbs	kgs
					in	mm	in	mm	in	mm	lbs	kgs	lbs	kgs		
XT4J-07	108			8	10.28	261	10.00	254	14.81	376	113	51	122	55	6.8	3.1
XT4J-09	142			8							129	59	138	63	6.3	2.9
XT4J-11	174			8							145	66	154	70	5.8	2.6
4XTH-07	306	4XTHP-07	290	8	10.24	260	14.32	364	22.88	581	290	132	316	144	29	12.9
4XTH-09	404	4XTHP-09	383	8							337	153	365	166	24	10.9
4XTH-11	508	4XTHP-11	493	8							450	204	478	217	35	15.9
4XTH-13	610	4XTHP-13	591	8	15.00	381	14.32	364	22.92	582	495	225	515	237	32	14.5
4XTH-15	711	4XTHP-15	690	8							535	243	548	249	32	14.3
4XTH-17	778	4XTHP-17	754	8							585	266	607	275	25	11.3
4XTH-19	914	4XTHP-19	886	8	19.27	489	14.32	364	22.92	582	645	293	687	312	30	13.6
4XTH-21	972	4XTHP-21	942	8							690	313	715	324	30	13.6
4XTH-23	1069	4XTHP-23	1037	8							760	344	790	358	34	15.4
2XTH-25	1218	2XTHP-25	1182	4	12.56	319	14.32	364	22.92	582	435	197	472	214	39	17.7
2XTH-27	1263	2XTHP-27	1226	4							465	211	488	221	39	17.7
2XTH-29	1422	2XTHP-29	1379	4							504	229	581	264	50	22.7
2XTH-31	1523	2XTHP-31	1478	4	15.27	388	14.32	364	22.92	582	525	238	576	261	48	21.8
2XTH-33	1555	2XTHP-33	1508	4							550	250			41	18.6
XT1L-35	1806	XT1LP-35	1732	2							10.62	270	14.12	359	22.75	578
XT1L-37	1904	XT1LP-37	1834	2	328	149	345	157	56	25.4						
XT1L-39	2019	XT1LP-39	1936	2	339	154	356	162	54	24.5						
XT1L-41	2085	XT1LP-41	1999	2	13.14	334	14.12	359	22.75	578	350	159	367	167	52	23.6
XT1L-43	2190	XT1LP-43	2099	2							416	189	434	197	86	39.0
XT1L-45	2294	XT1LP-45	2199	2							427	194	445	202	84	38.1
XT1L-47	2374	XT1LP-47	2277	2	12.10	307	14.12	359	22.75	578	438	199	456	207	82	37.2
XT1L-49	2454	XT1LP-49	2353	2							449	204	467	212	80	36.2
XT1L-51	2531	XT1LP-51	2427	2							460	209	478	217	78	35.4
XT1L-53	2606	XT1LP-53	2499	2	12.10	307	14.12	359	22.75	578	471	214	489	222	76	34.5
XT2L-23	1134	XT2LP-23	1077	4							415	189	432	196	41	18.6
XT2L-25	1213	XT2LP-25	1140	4							440	200	457	208	40	18.2

† 8 Hour rate to 1.75 Vpc at 77°F (25°C), 1.215 Specific Gravity.

XT SPECIFICATIONS

1.215*	Nominal Rates to 1.75 Vpc average							Nominal Rates to 1.67 Vpc average					
	Amperes							Kilowatts per cell					
	Models	1 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	8 Hr	1 Min	5 Min	10 Min	15 Min	20 Min
XT4J-07	274	177	123	77	33	21	14	0.595	0.520	0.437	0.370	0.320	0.252
XT4J-09	362	234	162	102	43	27	18	0.785	0.687	0.577	0.489	0.423	0.333
XT4J-11	443	287	199	125	53	34	22	0.962	0.842	0.707	0.599	0.518	0.408
4XTH-07	576	410	294	192	87	57	38	1.227	1.100	0.968	0.857	0.764	0.616
4XTH-09	760	542	388	254	115	76	51	1.619	1.453	1.278	1.132	1.008	0.813
4XTH-11	892	693	530	350	151	97	64	1.990	1.790	1.582	1.413	1.273	1.059
4XTH-13	1071	832	636	420	181	117	76	2.388	2.148	1.899	1.695	1.528	1.270
4XTH-15	1249	971	743	490	211	136	89	2.786	2.506	2.215	1.978	1.782	1.482
4XTH-17	1360	1039	781	514	226	147	97	3.076	2.798	2.459	2.167	1.934	1.606
4XTH-19	1606	1248	955	630	271	175	114	3.583	3.221	2.848	2.543	2.292	1.905
4XTH-21	1700	1299	977	643	283	184	122	3.845	3.497	3.074	2.709	2.417	2.007
4XTH-23	1870	1428	1074	707	311	203	134	4.230	3.847	3.382	2.980	2.659	2.208
2XTH-25	2142	1664	1273	840	362	233	152	4.777	4.295	3.797	3.391	3.056	2.540
2XTH-27	2210	1688	1270	835	368	240	158	4.999	4.546	3.996	3.521	3.142	2.609
2XTH-29	2499	1941	1485	981	422	272	178	5.573	5.011	4.430	3.956	3.565	2.964
2XTH-31	2677	2080	1591	1051	452	291	190	5.971	5.369	4.746	4.238	3.819	3.176
2XTH-33	2720	2078	1563	1028	453	295	194	6.153	5.595	4.919	4.334	3.868	3.211
XT1L-35	3015	2292	1696	1115	509	338	226	6.619	5.997	5.348	4.801	4.329	3.560
XT1L-37	3177	2416	1787	1175	537	356	238	6.975	6.320	5.636	5.059	4.563	3.752
XT1L-39	3369	2562	1895	1246	569	377	252	7.398	6.702	5.977	5.365	4.839	3.979
XT1L-41	3480	2646	1957	1287	588	390	261	7.640	6.922	6.173	5.541	4.997	4.109
XT1L-43	3654	2778	2055	1351	617	409	274	8.022	7.268	6.482	5.818	5.247	4.315
XT1L-45	3828	2811	2153	1416	647	429	287	8.404	7.614	6.790	6.095	5.497	4.520
XT1L-47	3963	3014	2229	1466	669	444	297	8.702	7.884	7.031	6.311	5.692	4.680
XT1L-49	4095	3114	2304	1515	692	459	307	8.992	8.147	7.265	6.522	5.882	4.836
XT1L-51	4224	3212	2376	1562	714	473	316	9.275	8.403	7.494	6.727	6.067	4.988
XT1L-53	4350	3307	2447	1609	735	487	326	9.550	8.652	7.716	6.927	6.247	5.137
XT2L-23	1966	1489	1110	730	326	214	142	4.242	3.861	3.445	3.084	2.769	2.252
XT2L-25	2103	1593	1188	781	349	229	152	4.537	4.129	3.685	3.299	2.962	2.409

* 1.215 specific gravity @ 77°F (25°C)
Ratings include connector voltage drop

1.250**	Nominal Rates to 1.75 Vpc average						Nominal Rates to 1.67 Vpc average					
	Amperes						Kilowatts per cell					
	Models	1 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	1 Min	5 Min	10 Min	15 Min	20 Min
XT4JC-07	305	201	134	84	51	37	0.661	0.557	0.465	0.397	0.346	0.273
XT4JC-09	403	266	177	111	67	48	0.873	0.736	0.614	0.524	0.456	0.360
XT4JC-11	493	326	217	136	82	59	1.070	0.902	0.752	0.643	0.559	0.441
4XTHC-07	638	460	341	227	140	102	1.344	1.210	1.063	0.941	0.842	0.698
4XTHC-09	842	607	451	300	184	134	1.775	1.598	1.403	1.242	1.112	0.921
4XTHC-11	974	757	579	382	229	165	2.173	1.954	1.727	1.542	1.390	1.156
4XTHC-13	1169	908	695	459	275	198	2.608	2.344	2.072	1.851	1.668	1.387
4XTHC-15	1364	1060	811	535	321	230	3.042	2.735	2.418	2.159	1.946	1.618
4XTHC-17	1485	1134	853	561	340	247	3.358	3.054	2.685	2.366	2.111	1.752
4XTHC-19	1754	1362	1042	688	412	296	3.911	3.517	3.109	2.776	2.502	2.080
4XTHC-21	1856	1418	1066	701	426	309	4.198	3.818	3.356	2.957	2.639	2.191
4XTHC-23	2042	1559	1173	772	468	340	4.618	4.200	3.692	3.253	2.903	2.410
2XTHC-25	2338	1817	1390	918	549	395	5.215	4.689	4.145	3.701	3.336	2.774
2XTHC-27	2413	1843	1386	912	553	402	5.457	4.939	4.363	3.844	3.430	2.848
2XTHC-29	2728	2119	1621	1070	641	461	6.084	5.470	4.836	4.318	3.892	3.236
2XTHC-31	2923	2271	1737	1147	687	494	6.519	5.861	5.181	4.627	4.170	3.467
2XTHC-33	2970	2268	1706	1122	681	494	6.717	6.109	5.370	4.731	4.222	3.505
XT1LC-35	3305	2500	1922	1307	808	589	7.165	6.520	5.813	5.214	4.711	3.934
XT1LC-37	3499	2647	2035	1384	856	624	7.587	6.904	6.155	5.521	4.989	4.166
XT1LC-39	3694	2794	2148	1461	903	659	8.008	7.287	6.497	5.827	5.266	4.397
XT1LC-41	3815	2886	2218	1509	933	680	8.271	7.526	6.710	6.018	5.438	4.541
XT1LC-43	4006	3030	2329	1584	979	714	8.684	7.902	7.045	6.319	5.710	4.769
XT1LC-45	4196	3175	2440	1660	1026	748	9.098	8.279	7.381	6.620	5.982	4.996
XT1LC-47	4345	3287	2527	1718	1062	775	9.420	8.572	7.642	6.854	6.194	5.172
XT1LC-49	4490	3397	2611	1776	1098	800	9.734	8.858	7.897	7.083	6.400	5.345
XT1LC-51	4631	3503	2693	1832	1132	826	10.040	9.136	8.145	7.306	6.602	5.513
XT1LC-53	4768	3607	2773	1886	1166	850	10.338	9.408	8.387	7.523	6.798	5.677
XT2LC-23	2153	1627	1251	851	525	383	4.663	4.243	3.782	3.392	3.066	2.560
XT2LC-25	2303	1740	1337	910	562	410	4.987	4.537	4.045	3.628	3.279	2.738

** 1.250 specific gravity @ 77°F (25°C)
Ratings include connector voltage drop

XT-PLUS SPECIFICATIONS

1.215*	Nominal Rates to 1.75 Vpc average							Nominal Rates to 1.67 Vpc average					
	Amperes							Kilowatts per cell					
	Models	1 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	8 Hr	1 Min	5 Min	10 Min	15 Min	20 Min
4XTHP-07	547	390	280	183	83	55	36	1.165	1.045	0.920	0.814	0.726	0.585
4XTHP-09	722	515	369	241	109	72	48	1.539	1.380	1.214	1.075	0.958	0.773
4XTHP-11	866	673	515	340	146	94	62	1.931	1.736	1.535	1.370	1.235	1.027
4XTHP-13	1039	807	617	408	176	113	74	2.317	2.083	1.842	1.644	1.482	1.232
4XTHP-15	1212	942	720	476	205	132	86	2.703	2.430	2.149	1.919	1.729	1.437
4XTHP-17	1319	1008	758	499	220	143	94	2.984	2.714	2.386	2.102	1.876	1.557
4XTHP-19	1558	1211	926	611	263	170	111	3.475	3.125	2.762	2.467	2.223	1.848
4XTHP-21	1649	1260	947	623	275	179	118	3.730	3.392	2.982	2.627	2.345	1.947
4XTHP-23	1814	1386	1042	686	302	197	130	4.103	3.731	3.280	2.890	2.579	2.141
2XTHP-25	2077	1614	1235	815	351	226	148	4.633	4.166	3.683	3.289	2.964	2.464
2XTHP-27	2144	1638	1232	810	357	232	153	4.849	4.410	3.877	3.416	3.048	2.531
2XTHP-29	2424	1883	1441	951	410	264	172	5.406	4.861	4.297	3.837	3.458	2.875
2XTHP-31	2597	2018	1543	1019	439	283	185	5.792	5.208	4.604	4.111	3.705	3.080
2XTHP-33	2639	2015	1516	997	439	286	189	5.968	5.428	4.771	4.204	3.751	3.115
XT1LP-35	2868	2175	1617	1070	489	324	217	6.328	5.822	5.143	4.504	3.997	3.302
XT1LP-37	3037	2303	1712	1132	518	343	229	6.700	6.165	5.445	4.769	4.226	3.496
XT1LP-39	3206	2431	1807	1195	547	362	242	7.073	6.507	5.748	5.034	4.460	3.690
XT1LP-41	3311	2511	1866	1235	565	374	250	7.304	6.720	5.936	5.199	4.606	3.811
XT1LP-43	3476	2636	1960	1296	593	393	262	7.670	7.056	6.233	5.459	4.837	4.002
XT1LP-45	3642	2762	2053	1358	621	411	275	8.035	7.393	6.530	5.719	5.067	4.139
XT1LP-47	3771	2859	2126	1406	643	426	285	8.319	7.654	6.761	5.921	5.247	4.341
XT1LP-49	3897	2955	2197	1453	664	440	294	8.597	7.909	6.986	6.119	5.421	4.486
XT1LP-51	4019	3048	2266	1499	685	454	303	8.867	8.158	7.206	6.311	5.592	4.627
XT1LP-53	4139	3138	2333	1543	706	468	312	9.130	8.401	7.420	6.499	5.758	4.764
XT2LP-23	1866	1414	1054	693	310	203	135	4.069	3.704	3.305	2.959	2.656	2.160
XT2LP-25	1977	1497	1116	734	328	215	143	4.310	3.923	3.500	3.134	2.813	2.288

* 1.215 specific gravity @ 77°F (25°C)
Ratings include connector voltage drop

1.250**	Nominal Rates to 1.75 Vpc average						Nominal Rates to 1.67 Vpc average					
	Amperes						Kilowatts per cell					
	Models	1 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	1 Min	5 Min	10 Min	15 Min	20 Min
4XTHCP-07	606	437	324	216	133	97	1.277	1.150	1.010	0.894	0.800	0.663
4XTHCP-09	800	577	428	285	175	128	1.686	1.518	1.333	1.180	1.056	0.875
4XTHCP-11	945	734	562	371	222	160	2.108	1.895	1.675	1.496	1.348	1.121
4XTHCP-13	1134	881	674	445	267	192	2.529	2.274	2.010	1.795	1.618	1.345
4XTHCP-15	1323	1028	786	519	311	224	2.951	2.653	2.345	2.094	1.888	1.570
4XTHCP-17	1440	1100	827	544	330	240	3.258	2.963	2.604	2.295	2.048	1.700
4XTHCP-19	1701	1322	1011	667	400	287	3.794	3.411	3.015	2.693	2.427	2.018
4XTHCP-21	1800	1375	1034	680	413	300	4.072	3.703	3.255	2.868	2.560	2.125
4XTHCP-23	1987	1513	1138	748	454	330	4.479	4.074	3.581	3.155	2.815	2.337
2XTHCP-25	2268	1762	1348	890	533	383	5.059	4.548	4.021	3.590	3.236	2.691
2XTHCP-27	2341	1788	1345	884	537	390	5.294	4.814	4.232	3.729	3.327	2.762
2XTHCP-29	2646	2056	1573	1038	622	447	5.902	5.306	4.691	4.189	3.775	3.139
2XTHCP-31	2835	2203	1685	1112	666	479	6.323	5.685	5.026	4.488	4.045	3.363
2XTHCP-33	2881	2200	1655	1089	660	479	6.515	5.925	5.209	4.589	4.095	3.400
XT1LCP-35	3140	2375	1826	1242	768	560	6.807	6.194	5.522	4.953	4.476	3.738
XT1LCP-37	3325	2515	1933	1315	813	593	7.208	6.559	5.847	5.245	4.739	3.958
XT1LCP-39	3509	2655	2041	1388	858	626	7.608	6.923	6.172	5.536	5.003	4.177
XT1LCP-41	3624	2742	2108	1433	886	646	7.857	7.150	6.374	5.717	5.166	4.314
XT1LCP-43	3805	2879	2213	1505	930	679	8.250	7.507	6.693	6.003	5.425	4.530
XT1LCP-45	3987	3016	2318	1577	975	711	8.643	7.865	7.012	6.289	5.683	4.746
XT1LCP-47	4128	3123	2400	1633	1009	736	8.949	8.143	7.260	6.512	5.884	4.914
XT1LCP-49	4265	3227	2480	1687	1043	761	9.248	8.415	7.502	6.729	6.081	5.078
XT1LCP-51	4400	3328	2558	1740	1076	784	9.538	8.679	7.738	6.941	6.272	5.237
XT1LCP-53	4530	3427	2634	1792	1108	808	9.822	8.937	7.968	7.147	6.458	5.393
XT2LCP-23	2043	1544	1187	808	449	364	4.425	4.027	3.590	3.220	2.910	2.430
XT2LCP-25	2164	1636	1257	856	529	386	4.687	4.265	3.802	3.410	3.082	2.574

** 1.250 specific gravity @ 77°F (25°C)
Ratings include connector voltage drop

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
- 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.

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.

XTH/XTH Plus

- Newest Multi-Cell version
- Less rack space required
- Higher power density
- Minimize maintenance
- All the benefits of the Legacy XT Series batteries
- Blade posts provide increased contact area for connectors and terminals

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.

XTL/XTL Plus

- Legacy XT series
- Proven UPS battery for over 25 years
- Available for higher power applications

RACKS FOR XT SERIES BATTERIES

C&D now offers a complete line of IBC 2009 certified stand-by battery racks, the RDC series, for the XT Series Batteries. Two Earthquake Protected battery storage rack categories (EP1 and EP2) are offered to suit a variety of seismic loading conditions. These designs have been qualified to the 2009 International Building Code (IBC), Chapter 16, "Structural Design", Section 1613, "Earthquake Loads". The qualification also covers the 2000, 2003, and 2006 versions of IBC as well as UBC 1994 and UBC 1997.

See 12-560 flooded rack selection guide for more detail.

Rack Sizing Guide for XTL & XTL Plus Batteries XTH & XTH Plus Batteries					Model										
					4XTH-07, -09 4XTHP-07, -09	4XTH-11, -13, -15 4XTHP-11, -13, -15	4XTH-17 4XTHP-17	4XTH-19, -21 4XTHP-19, -21	4XTH-23 4XTHP-23	XT2L-23, -25 XT2LP-23, -25	2XTH-25, -27 2XTHP-25, -27	2XTH-29, -31, -33 2XTHP-29, -31, -33	XT1L-35, -37, -39, -41 XT1LP-35, -37, -39, -41	XT1L-43, -45, -47 XT1L-49, -51, -53 XT1LP-43, -45, -47 XT1LP-49, -51, -53	
Rack Length (ft)	Cells Per Unit				4	4	4	4	4	2	2	2	1	1	
	Unit Length (in)				10.24	15.00	16.10	19.27	21.06	12.10	12.56	15.27	10.62	13.14	
	Available RDV Racks				Maximum Number of Units per Tier										
	√ = IBC 2009 EP1, EP2 & non-seismic available														
	1 Tier	2 Tier	3 Tier	2 Step											
3	√	√	√	√	3	2	2	1	1	2	2	2	3	2	
4	√	√	√	√	4	3	2	2	2	3	3	3	4	3	
5	√	√	√	√	5	3	3	3	2	4	4	3	5	4	
6	√	√	√	√	6	4	4	3	3	5	5	4	6	5	
7	√	√	√	√	7	5	5	4	3	6	6	5	7	6	
8	√	√	√	√	9	6	5	4	4	7	7	6	8	7	
9	√	√	√	√	10	7	6	5	5	8	8	6	9	7	
10	√	√	√	√	11	7	7	6	5	9	9	7	10	8	
11	√	√	√	√	12	8	7	6	6	10	10	8	11	9	
12	√	√	√	√	13	9	8	7	6	11	11	9	12	10	
13	√	√	√	√	14	10	9	7	7	12	11	9	14	11	
14	√	√	√	√	15	10	10	8	7	13	12	10	15	12	
15	√	√	√	√	17	11	10	9	8	14	13	11	16	13	
16	√	√	√	√	18	12	11	9	8	15	14	12	17	14	
16.5	√	√	√	√	18	12	11	9	9	15	15	12	17	14	
17	√	√	√	√	19	13	12	10	9	16	15	12	18	14	
18	√	√	√	√	20	13	13	10	10	17	16	13	19	15	
19	√	√	√	√	21	14	13	11	10	18	17	14	20	16	
20	√	√	√	√	22	15	14	12	10	19	18	15	21	17	
21	√	√	√	√	23	16	15	12	11	20	19	16	22	18	
22	√	√	√	√	24	17	15	13	12	20	20	16	23	19	
23	√	√	√	√	25	17	16	14	12	21	21	17	24	20	
24	√	√	√	√	26	18	17	14	13	22	22	18	25	21	
25	√	√	√	√	27	19	18	15	13	23	22	19	27	22	
26	√	√	√	√	29	20	18	15	14	24	23	19	28	22	
27	√	√	√	√	30	20	19	16	15	25	24	20	29	23	

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