



SPECIFICATIONS

Long Duration Flooded Batteries

MCT — LEAD CALCIUM
NCT — LEAD CALCIUM
HCT — LEAD CALCIUM



INDUSTRIAL POWER

LONG DURATION MCT — LEAD CALCIUM

**CAPACITIES — 190 A.H. TO 480 A.H.
8 HOUR RATE TO 1.75 V.P.C. @ 77°F (25°C)**

20 YEAR LIFE EXPECTANCY

SPECIFICATIONS

Jar — Styrene-Acrylonitrile (SAN) Plastic

Cover — Acrylonitrile Butadiene Styrene (ABS) Plastic

Separators — Microporous Material

Retainers — Fiberglass Mat

Posts — Two (per cell) - 1.0" (25.4 mm) Square

Post Seals — Floating "O" Ring - Seal Nut

Vents — GNB "Pre-Vent" Flame Arrester

Level Lines — High and Low - All Jar Faces

Electrolyte — Height Above plates - 2.50" (63.5 mm)

Electrolyte Withdrawal Tubes — 2 per cell

Sediment Space — .95" (24.1mm)

Specific Gravity — 1.215 @ 77°F (25°C)

Inter-Cell Connectors — Lead Plated Copper

Hardware — Type 316 Stainless Steel

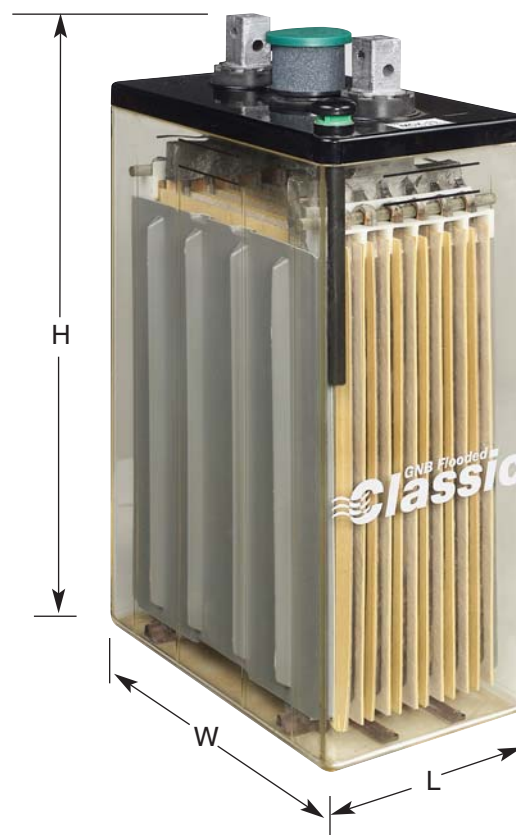


Plate Dimensions	Height	Width	Thickness
Positive Plate	11.56 in 293.6 mm	9.19 in 233.4 mm	.325 in 8.26 mm
Negative Plate	11.56 in 293.6 mm	9.19 in 233.4 mm	.220 in 5.59 mm

Cell Type	Amp-Hour Capacity ¹	Overall Dimensions			Approximate Weight		Electrolyte Per Cell
		Length	Width	Height	Net	Packed	
2-MCT-5*	192	6.25 in 159 mm	11.13 in 283 mm	18.25 in 464 mm	104 lbs 48 kg	110 lbs 50 kg	1.3 gal 4.9 liter
MCT-7	288	4.13 in 105 mm			70 lbs 32 kg	74 lbs 34 kg	1.7 gal 6.4 liter
MCT-9	384	5.13 in 130 mm			88 lbs 40 kg	93 lbs 42 kg	2.1 gal 7.9 liter
MCT-11	480	6.50 in 165 mm			107 lbs 49 kg	113 lbs 51 kg	2.8 gal 10.6 liter

*2 cells per unit

¹8 hour rate to 1.75 VPC @ 77°F (25°C)

**AMP DATA @ 77°F (25°C)
MCT CELLS**

CELL TYPE	HOURS						
	8	5	4	3	2	1.5	1
End Voltage — 1.75							
2-MCT-5	24	33	38	46	59	69	84
MCT-7	36	50	57	69	89	104	126
MCT-9	48	66	76	92	118	138	168
MCT-11	60	83	95	115	148	173	210
End Voltage — 1.78							
2-MCT-5	24	32	37	45	57	66	80
MCT-7	35	48	56	68	86	100	120
MCT-9	47	64	74	90	114	133	160
MCT-11	59	80	93	113	143	166	200
End Voltage — 1.81							
2-MCT-5	23	30	36	44	55	64	76
MCT-7	35	45	54	66	83	96	114
MCT-9	46	60	72	88	110	128	152
MCT-11	58	75	90	110	138	160	190
End Voltage — 1.84							
2-MCT-5	22	29	34	41	51	58	69
MCT-7	33	44	51	62	77	87	104
MCT-9	44	58	68	82	102	116	138
MCT-11	55	73	85	103	128	145	173
End Voltage — 1.88							
2-MCT-5	20	27	31	37	45	51	59
MCT-7	29	40	47	55	67	77	88
MCT-9	39	53	62	73	89	103	117
MCT-11	49	66	78	92	112	129	147
End Voltage — 1.90							
2-MCT-5	19	25	29	33	41	46	53
MCT-7	28	38	43	50	62	69	80
MCT-9	37	50	57	66	82	93	106
MCT-11	47	63	71	83	103	115	133
End Voltage — 1.92							
2-MCT-5	15	23	26	31	37	42	47
MCT-7	23	35	39	47	56	63	71
MCT-9	30	46	52	62	74	84	94
MCT-11	38	58	65	78	93	105	118

**LONG DURATION
NCT — LEAD CALCIUM
CAPACITIES — 550 A.H. TO 2550 A.H.
8 HOUR RATE TO 1.75 V.P.C. @ 77°F (25°C)
20 YEAR LIFE EXPECTANCY
SPECIFICATIONS**

- ***Jar** — Styrene-Acrylonitrile (SAN) Plastic
- ***Cover** — Acrylonitrile Butadiene Styrene (ABS) Plastic
- Separators** — Microporous Material
- Retainers** — Fiberglass Mat
- Posts** — NCT 7-13 two-1.5" (38 mm) square
NCT 15-21 four-1.0" (25 mm) square
NCT 23-35 four-1.5" (38 mm) square
- Post Seals** — Floating "O" Ring - Seal Nut
- Vents** — GNB "Pre-Vent" Flame Arrester
- Level Lines** — High and Low - All Jar Faces
- Electrolyte** — Height Above plates - 2.75" (70mm)
- Electrolyte Withdrawal Tubes** — 2 per cell
- Sediment Space** — 1.06" (27mm)
- Specific Gravity** — 1.215 @ 77°F (25°C)
- Inter-Cell Connectors** — Lead Plated Copper
- ***Optional** — Polycarbonate Jar and Cover
 - UL 94 — V-O/ 28% L.O.I. Rating
 - NCT 19 to 21 Sizes Only
- PVC Jar and Cover
 - UL 94 — V-O/ 32% L.O.I. Rating
 - NCT 19 to 21 Sizes Only

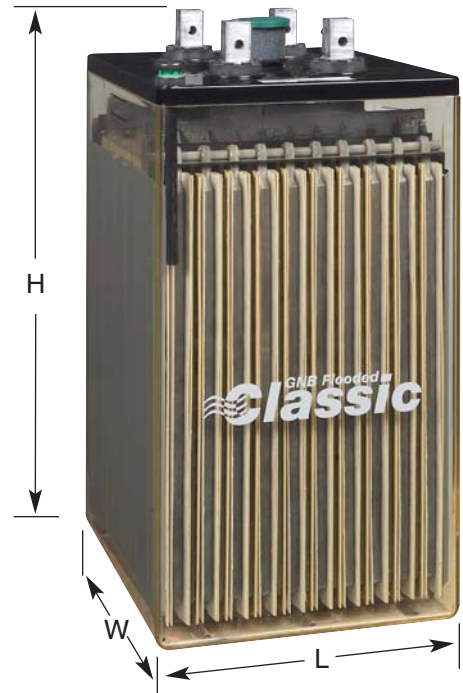


Plate Dimensions	Height	Width	Thickness
Positive Plate	15.0 in 381 mm	12.5 in 317.5 mm	.325 in 8.26 mm
Negative Plate	15.0 in 381 mm	12.5 in 317.5 mm	.220 in 5.59 mm

Cell Type	Amp-Hour Capacity ¹	Overall Dimensions			Approximate Weight		Electrolyte
		Length	Width	Height	Net	Packed	Per Cell
NCT-7	552	7.38 in 187 mm	14.55 in 368 mm	22.13 in 562 mm	160 lbs 72 kg	168 lbs 76 kg	6.4 gal 24.2 liter
NCT-9	712	↓		↓	178 lbs 81 kg	190 lbs 86 kg	6.0 gal 22.7 liter
NCT-11	864				196 lbs 89 kg	208 lbs 95 kg	5.6 gal 21.2 liter
NCT-13	1008				214 lbs 97 kg	226 lbs 103 kg	5.1 gal 19.3 liter
NCT-15	1192	9.25 in 235 mm		22.5 in 572 mm	250 lbs 114 kg	263 lbs 120 kg	7.2 gal 27.3 liter
NCT-17	1344	↓			268 lbs 122 kg	280 lbs 127 kg	6.8 gal 25.7 liter
NCT-19	1520	11.38 in 289 mm			314 lbs 140 kg	330 lbs 150 kg	8.7 gal 32.9 liter
NCT-21	1680	↓			332 lbs 151 kg	350 lbs 159 kg	8.3 gal 31.4 liter
NCT-23	1864	14.56 in 370 mm			397 lbs 180 kg	415 lbs 189 kg	12.6 gal 47.7 liter
NCT-25	2024	↓			415 lbs 189 kg	433 lbs 197 kg	12.1 gal 45.8 liter
NCT-27	2184				433 lbs 197 kg	451 lbs 205 kg	11.5 gal 43.5 liter
NCT-31	2280				462 lbs 210 kg	480 lbs 218 kg	10.9 gal 41.3 liter
NCT-33	2416	↓	↓	↓	479 lbs 218 kg	497 lbs 226 kg	10.3 gal 39.0 liter
NCT-35	2552				496 lbs 226 kg	514 lbs 234 kg	9.7 gal 36.7 liter

¹8 hour rate to 1.75 VPC @ 77°F (25°C)

AMP DATA @ 77°F (25°C) NCT CELLS

CELL TYPE	HOURS						
	8	5	4	3	2	1.5	1
End Voltage — 1.75							
NCT-7	69	96	112	134	170	207	245
NCT-9	89	124	144	173	208	225	300
NCT-11	108	151	175	210	260	308	375
NCT-13	126	176	206	246	312	372	450
NCT-15	149	208	243	290	363	435	525
NCT-17	168	235	274	328	416	495	600
NCT-19	190	265	309	370	468	553	675
NCT-21	210	294	343	410	520	623	750
NCT-23	233	326	380	455	572	682	825
NCT-25	253	354	412	493	624	740	900
NCT-27	273	382	445	533	676	800	975
NCT-31	285	411	483	595	770	925	1125
NCT-33	302	435	512	629	820	995	1200
NCT-35	319	459	559	663	868	1053	1275
End Voltage — 1.78							
NCT-7	67	93	108	129	165	197	228
NCT-9	86	120	139	166	202	214	279
NCT-11	105	146	169	202	252	293	349
NCT-13	123	171	198	237	303	353	419
NCT-15	145	202	234	280	352	413	488
NCT-17	163	228	264	316	404	470	558
NCT-19	184	257	298	357	454	525	628
NCT-21	204	285	330	395	504	592	698
NCT-23	227	316	366	438	555	648	767
NCT-25	246	342	397	475	605	703	837
NCT-27	266	370	429	514	656	760	907
NCT-31	275	399	465	555	747	879	1046
NCT-33	292	422	492	586	795	945	1116
NCT-35	310	445	518	623	842	1000	1186
End Voltage — 1.81							
NCT-7	65	90	104	124	153	182	208
NCT-9	84	116	134	160	187	198	255
NCT-11	102	141	163	195	234	271	318
NCT-13	119	165	191	228	281	327	382
NCT-15	141	195	225	269	326	382	446
NCT-17	159	220	254	304	374	436	510
NCT-19	179	248	287	343	421	486	573
NCT-21	199	275	318	380	468	548	637
NCT-23	221	305	352	422	514	600	701
NCT-25	239	331	382	457	562	651	765
NCT-27	258	357	413	494	608	704	828
NCT-31	268	387	446	540	693	814	956
NCT-33	284	410	476	571	738	875	1020
NCT-35	300	432	505	606	781	926	1083

AMP DATA @ 77°F (25°C) NCT CELLS

CELL TYPE	HOURS						
	8	5	4	3	2	1.5	1
End Voltage — 1.84							
NCT-7	62	87	98	118	139	160	183
NCT-9	81	112	126	153	170	188	225
NCT-11	98	136	154	186	213	243	281
NCT-13	115	159	180	217	255	293	337
NCT-15	135	188	213	257	297	343	393
NCT-17	153	212	240	290	341	391	450
NCT-19	173	239	271	327	383	436	506
NCT-21	191	265	300	362	426	492	562
NCT-23	212	294	333	402	469	538	618
NCT-25	230	319	361	436	511	585	675
NCT-27	249	345	390	471	554	632	731
NCT-31	260	366	423	510	631	730	843
NCT-33	276	387	452	538	672	786	900
NCT-35	291	408	476	572	711	832	956
End Voltage — 1.86							
NCT-7	60	83	94	112	129	144	169
NCT-9	77	106	121	144	158	171	207
NCT-11	94	129	147	175	197	224	258
NCT-13	110	152	173	205	237	271	310
NCT-15	130	179	204	243	275	317	362
NCT-17	146	202	230	274	316	361	414
NCT-19	165	228	260	309	356	403	465
NCT-21	183	253	288	342	395	454	517
NCT-23	203	280	319	380	434	497	569
NCT-25	220	304	346	412	474	540	621
NCT-27	238	328	374	445	513	584	672
NCT-31	247	342	397	480	585	675	776
NCT-33	262	364	424	506	623	726	828
NCT-35	276	384	446	538	659	768	879
End Voltage — 1.88							
NCT-7	57	78	90	105	119	129	152
NCT-9	74	101	116	136	145	158	186
NCT-11	90	123	141	165	182	206	232
NCT-13	105	144	165	194	218	249	279
NCT-15	124	170	195	228	254	291	325
NCT-17	140	192	220	258	291	331	372
NCT-19	158	217	248	291	327	370	418
NCT-21	175	240	275	323	364	417	465
NCT-23	194	266	305	358	400	457	511
NCT-25	211	289	331	388	436	495	558
NCT-27	227	312	358	419	473	536	604
NCT-31	234	321	371	455	539	619	697
NCT-33	248	342	396	485	574	666	744
NCT-35	261	360	416	510	607	705	790
End Voltage — 1.92							
NCT-7	48	65	73	85	93	99	115
NCT-9	62	84	95	110	114	123	141
NCT-11	75	101	115	133	143	157	176
NCT-13	88	119	135	156	171	189	211
NCT-15	104	140	159	184	199	221	246
NCT-17	117	159	180	208	228	252	282
NCT-19	132	179	203	235	257	282	317
NCT-21	146	198	225	260	286	317	352
NCT-23	162	220	249	289	314	347	387
NCT-25	176	239	270	313	343	377	423
NCT-27	190	258	292	338	371	408	458
NCT-31	200	273	311	380	423	471	528
NCT-33	214	291	328	405	451	507	564
NCT-35	225	306	348	425	477	537	599

**LONG DURATION
TYPE HCT - LEAD CALCIUM
CAPACITIES — 2240 A.H. TO 3700 A.H.
8 HOUR RATE TO 1.75 V.P.C. @ 77°F (25°C)
20 YEAR LIFE EXPECTANCY**

SPECIFICATIONS

- ***Jar** — Styrene-Acrylonitrile (SAN) Plastic
- ***Cover** — Acrylonitrile Butadiene Styrene (ABS) Plastic
- Separators** — Microporous Material
- Retainers** — Fiberglass Mat
- Posts** — Four - 1.50" Square (38.1 mm)
- Post Seals** — Floating "O" Ring - Seal Nut
- Vents** — GNB "Pre-Vent" Flame Arrester
- Level Lines** — High and Low - All Jar Faces
- Electrolyte** — Height above plates - 3.25" (82.6 mm)
- Electrolyte Withdrawal Tubes** — 2 Per Cell
- Sediment Space** — 1.06" (26.9 mm)
- Specific Gravity** — 1.215 @ 77°F (25°C)
- Inter-Cell Connectors** — Lead Plated Copper
- ***Optional** — Polycarbonate Jar and Cover
 - UL 94 — V-O
 - 28% Limiting Oxygen Index (L.O.I.)
- PVC Jar and Cover
 - UL 94 — V-O
 - 32% Limiting Oxygen Index (L.O.I.)

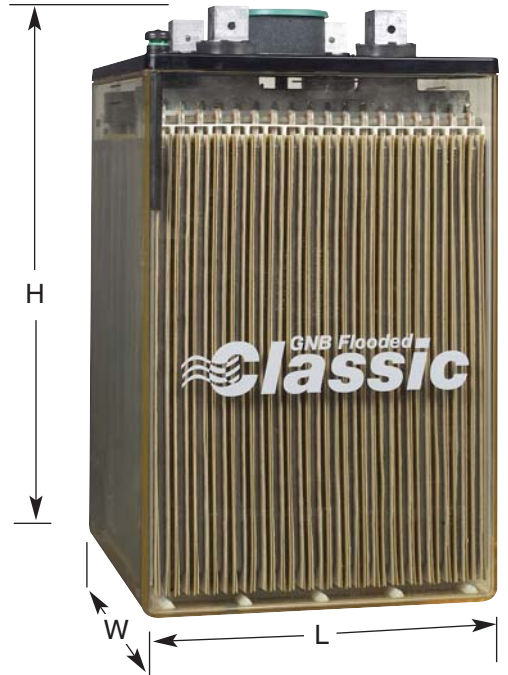


Plate Dimensions	Height	Width	Thickness
Positive Plate	17.5 in 444 mm	15.0 in 381 mm	.275 in 6.99 mm
Negative Plate	17.5 in 444 mm	15.0 in 381 mm	.193 in 4.90 mm

Cell Type	Amp-Hour Capacity ¹	Overall Dimensions			Approximate Weight		Electrolyte Per Cell
		Length	Width	Height	Net	Packed	
HCT 21	2240	15.1 in 383 mm	17.25 in 438 mm	25.13 in 638 mm	454 lbs 206 kg	476 lbs 216 kg	20.3 gal 76.8 liter
HCT 23	2456				471 lbs 214 kg	493 lbs 224 kg	19.5 gal 73.8 liter
HCT 25	2664				488 lbs 222 kg	510 lbs 232 kg	18.7 gal 70.8 liter
HCT 27	2864				505 lbs 229 kg	527 lbs 239 kg	17.9 gal 67.8 liter
HCT 29	3056				522 lbs 237 kg	544 lbs 247 kg	17.1 gal 64.7 liter
HCT 31	3232				539 lbs 245 kg	561 lbs 255 kg	16.3 gal 61.7 liter
HCT 33	3408				556 lbs 252 kg	578 lbs 262 kg	15.5 gal 58.7 liter
HCT 35	3560				573 lbs 260 kg	595 lbs 270 kg	14.7 gal 55.6 liter
HCT 37	3696	↓	↓	↓	590 lbs 268 kg	612 lbs 278 kg	13.9 gal 52.6 liter

¹8 hour rate to 1.75 VPC @ 77°F (25°C)

AMP DATA @ 77°F (25°C) HCT CELLS

CELL TYPE	HOURS							MINUTES		
	8	5	4	3	2	1.5	1	30	15	1
End Voltage — 1.75										
HCT-21	280	403	476	582	693	817	1120	1549	1835	2261
HCT-23	307	442	521	638	759	895	1206	1653	1953	2406
HCT-25	333	480	566	693	825	971	1331	1765	2070	2550
HCT-27	358	515	608	744	885	1043	1400	1854	2174	2678
HCT-29	382	549	649	794	945	1113	1489	1951	2263	2788
HCT-31	404	581	685	839	998	1176	1571	2026	2339	2882
HCT-33	426	613	724	886	1055	1243	1653	2107	2415	2975
HCT-35	445	640	755	924	1100	1296	1720	2177	2472	3054
HCT-37	462	664	784	959	1142	1346	1787	2263	2543	3117
End Voltage — 1.78										
HCT-21	273	390	459	560	666	762	1010	1390	1614	1898
HCT-23	299	427	503	613	730	834	1080	1470	1716	2016
HCT-25	325	464	546	666	793	906	1160	1570	1821	2142
HCT-27	349	498	586	715	851	972	1250	1670	1910	2242
HCT-29	372	531	626	763	908	1038	1340	1760	1988	2335
HCT-31	393	561	661	806	959	1097	1430	1840	2059	2420
HCT-33	415	593	699	852	1014	1159	1497	1900	2125	2495
HCT-35	433	618	728	888	1057	1208	1551	1950	2190	2556
HCT-37	450	642	756	923	1098	1255	1600	2000	2244	2631
End Voltage — 1.81										
HCT-21	266	376	442	538	638	729	953	1328	1541	1808
HCT-23	291	412	484	589	699	798	1053	1410	1638	1920
HCT-25	316	448	526	639	759	867	1143	1476	1738	2040
HCT-27	340	480	565	686	815	930	1223	1558	1822	2136
HCT-29	362	513	603	732	870	993	1305	1626	1898	2224
HCT-31	383	542	637	774	919	1049	1372	1690	1967	2304
HCT-33	405	573	673	818	971	1109	1430	1746	2028	2376
HCT-35	422	597	702	853	1013	1156	1462	1790	2066	2433
HCT-37	438	620	729	886	1052	1200	1519	1831	2142	2494

AMP DATA @ 77°F (25°C) HCT CELLS

CELL TYPE	HOURS						
	8	5	4	3	2	1.5	1
End Voltage — 1.84							
HCT-21	255	358	420	508	586	666	896
HCT-23	279	392	460	556	641	729	981
HCT-25	303	426	500	604	697	792	1066
HCT-27	325	458	536	648	748	850	1144
HCT-29	347	488	572	692	798	907	1221
HCT-31	367	516	605	731	843	959	1290
HCT-33	388	545	639	772	891	1013	1363
HCT-35	404	568	666	805	929	1056	1421
HCT-37	420	590	692	836	965	1097	1476
End Voltage — 1.86							
HCT-21	244	340	400	474	549	624	829
HCT-23	267	373	438	519	601	684	908
HCT-25	290	405	476	564	653	742	986
HCT-27	311	435	511	605	701	797	1058
HCT-29	332	464	546	646	748	850	1129
HCT-31	351	490	576	683	790	899	1193
HCT-33	371	518	609	721	835	950	1261
HCT-35	386	540	635	752	870	990	1315
HCT-37	401	561	660	781	904	1028	1365
End Voltage — 1.88							
HCT-21	232	323	381	441	520	587	762
HCT-23	254	353	417	482	569	643	834
HCT-25	276	384	453	524	618	698	906
HCT-27	297	412	486	562	664	749	972
HCT-29	317	439	519	600	708	800	1038
HCT-31	335	464	548	634	748	845	1097
HCT-33	354	491	579	670	791	893	1159
HCT-35	369	512	604	699	824	931	1208
HCT-37	383	531	627	726	856	967	1255
End Voltage — 1.92							
HCT-21	199	269	314	373	413	463	582
HCT-23	218	294	343	409	453	507	638
HCT-25	236	320	373	444	492	551	693
HCT-27	254	343	400	477	528	591	744
HCT-29	271	366	427	509	563	631	794
HCT-31	286	387	452	538	595	667	839
HCT-33	302	409	477	568	629	704	886
HCT-35	315	426	497	592	656	734	924
HCT-37	327	443	517	615	681	763	959

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