

GNB Flooded
Classic®



SPECIFICATIONS

Long Duration Flooded Batteries

MCT — LEAD CALCIUM

H1T — LEAD CALCIUM

**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" Square (25.4 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 - 2.50" (63.5 mm)
- Electrolyte Withdrawal Tubes** — 2 per cell
- Sediment Space** — 0.95" (24.1 mm)
- Specific Gravity** — 1.215 @ 77°F (25°C)
- Inter-Cell Connectors** — Lead Plated Copper
- Hardware** — Type 316 Stainless Steel

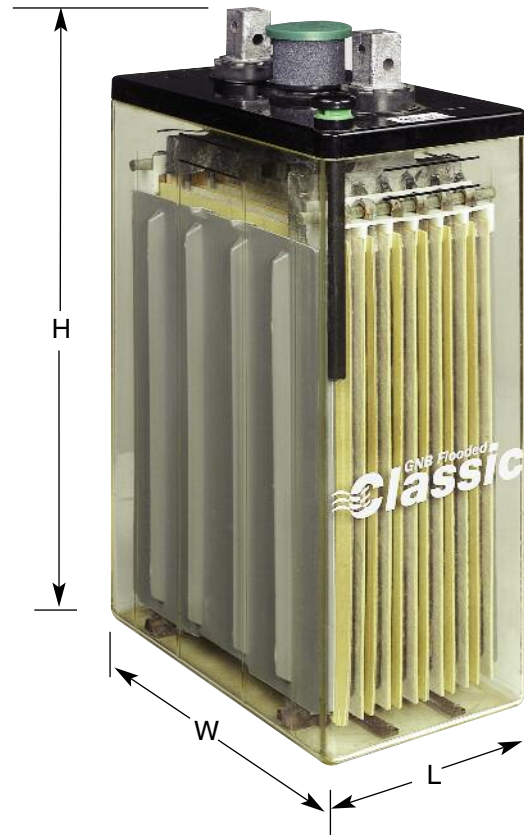


Plate Dimensions	Height	Width	Thickness
Positive Plate	11.56 in 293.6 mm	9.19 in 233.4 mm	0.325 in 8.26 mm
Negative Plate	11.56 in 293.6 mm	9.19 in 233.4 mm	0.220 in 5.59 mm

Cell Type	Amp-Hour Capacity ¹	Overall Dimensions - in (mm)			Approximate Weight		Electrolyte Per Cell
		Length	Width	Height	Net lbs (kg)	Packed lbs (kg)	
2-MCT-5*	192	6.25 (159)	11.13 (283)	18.25 (464)	104 lbs 48 kg	110 lbs 50 kg	1.3 gal 4.9 liter
MCT-7	288	4.13 (105)			70 lbs 32 kg	74 lbs 34 kg	1.7 gal 6.4 liter
MCT-9	384	5.13 (130)			88 lbs 40 kg	93 lbs 42 kg	2.1 gal 7.9 liter
MCT-11	480	6.50 (165)			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	Discharge Rate to 1.75 End Voltage / Hours						
	8	5	4	3	2	1.5	1
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

CELL TYPE	Discharge Rate to 1.78 End Voltage / Hours						
	8	5	4	3	2	1.5	1
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

CELL TYPE	Discharge Rate to 1.81 End Voltage / Hours						
	8	5	4	3	2	1.5	1
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

CELL TYPE	Discharge Rate to 1.84 End Voltage / Hours						
	8	5	4	3	2	1.5	1
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

CELL TYPE	Discharge Rate to 1.88 End Voltage / Hours						
	8	5	4	3	2	1.5	1
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

CELL TYPE	Discharge Rate to 1.90 End Voltage / Hours						
	8	5	4	3	2	1.5	1
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

CELL TYPE	Discharge Rate to 1.92 End Voltage / Hours						
	8	5	4	3	2	1.5	1
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
TYPE H1T - LEAD CALCIUM
CAPACITIES — 2200 A.H. TO 4000 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
- Grid Alloy** — Positive: Lead-Calcium-Tin-Silver
Negative: Lead-Calcium
- 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-0
 - 28% Limiting Oxygen Index (L.O.I.)
- PVC Jar and Cover
 - UL 94 — V-0
 - 32% Limiting Oxygen Index (L.O.I.)

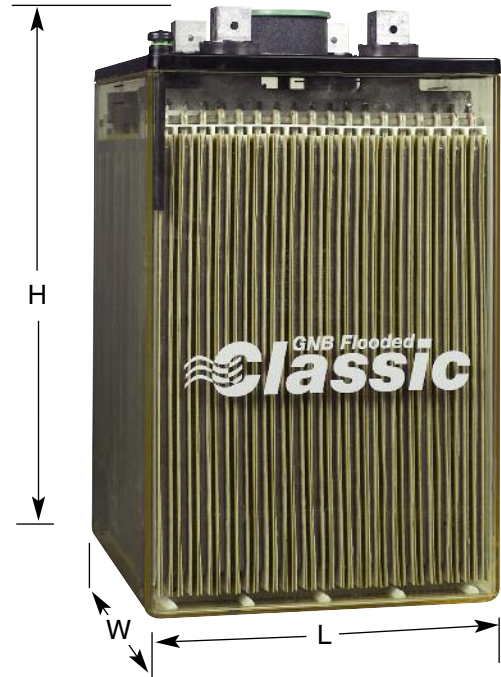


Plate Dimensions	Height	Width	Thickness
Positive Plate	17.5 in	15.0 in	0.222 in
	445 mm	381 mm	5.64 mm
Negative Plate	17.5 in	15.0 in	0.162 in
	445 mm	381 mm	4.11 mm

Cell Type	Amp-Hour Capacity ¹	Overall Dimensions - in (mm)			Approximate Weight		Electrolyte Per Cell	
		Length	Width	Height	Net lbs (kg)	Packed lbs (kg)	Gallons	Liters
H1T-23	2504	15.1 (384)	17.25 (438)	25.13 (638)	437 (198.2)	450 (203.9)	17.9	67.7
H1T-25	2640				453 (205.4)	478 (216.7)	17.7	66.8
H1T-27	2768				469 (212.5)	494 (223.9)	17.4	66.0
H1T-29	2904				484 (219.7)	509 (231.1)	17.2	65.1
H1T-31	3008				500 (226.9)	525 (238.2)	17.0	64.2
H1T-33	3112				516 (234.1)	541 (245.4)	16.7	63.3
H1T-35	3264				532 (241.2)	557 (252.6)	16.5	62.4
H1T-37	3416				548 (248.4)	573 (259.7)	16.3	61.6
H1T-39	3600				563 (255.6)	588 (266.9)	16.0	60.7
H1T-41	4000				579 (262.8)	604 (274.1)	15.8	59.8

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

AMP DATA @ 77°F (25°C) H1T CELLS

CELL TYPE	Discharge Rate to 1.75 VPC / Hours								Minutes		
	24	12	8	5	4	3	2	1	30	15	1
H1T-23	138	236	313	435	498	581	745	1065	1345	1677	1677
H1T-25	146	248	330	459	528	626	806	1155	1481	1832	1832
H1T-27	153	260	346	483	559	671	867	1245	1616	1986	1986
H1T-29	161	272	363	507	590	716	929	1335	1752	2140	2140
H1T-31	163	278	376	534	624	758	977	1394	1862	2283	2283
H1T-33	166	284	389	560	659	799	1026	1452	1972	2425	2425
H1T-35	170	296	408	585	690	842	1093	1560	2079	2500	2517
H1T-37	174	308	427	611	720	885	1160	1668	2185	2575	2665
H1T-39	176	323	450	638	750	905	1213	1719	2285	2643	2813
H1T-41	178	337	500	666	780	959	1267	1769	2385	2711	2961

CELL TYPE	Discharge Rate to 1.78 VPC / Hours								Minutes		
	24	12	8	5	4	3	2	1	30	15	1
H1T-23	137	234	312	430	486	563	694	977	1365	1440	1440
H1T-25	144	247	328	454	516	605	758	1058	1462	1578	1578
H1T-27	152	259	344	477	546	647	822	1139	1560	1723	1723
H1T-29	159	271	360	501	576	689	887	1220	1657	1868	1868
H1T-31	161	275	371	521	603	727	930	1277	1769	1987	1987
H1T-33	163	279	381	541	630	765	973	1334	1881	2106	2106
H1T-35	168	291	400	566	662	809	1035	1389	1998	2168	2198
H1T-37	173	303	419	591	694	853	1096	1444	2115	2231	2328
H1T-39	174	317	443	619	723	876	1105	1514	2207	2327	2457
H1T-41	176	332	466	647	752	899	1113	1583	2298	2424	2586

CELL TYPE	Discharge Rate to 1.80 VPC / Hours								Minutes		
	24	12	8	5	4	3	2	1	30	15	1
H1T-23	136	232	309	423	477	547	664	917	1245	1313	1313
H1T-25	144	245	325	446	505	588	729	997	1335	1408	1408
H1T-27	151	257	341	468	534	630	794	1077	1425	1548	1548
H1T-29	158	270	356	491	563	671	859	1157	1515	1687	1687
H1T-31	159	273	367	510	588	706	900	1212	1615	1790	1790
H1T-33	161	276	378	529	613	741	941	1267	1714	1893	1893
H1T-35	166	288	396	554	647	785	999	1323	1806	1947	1986
H1T-37	171	299	413	578	681	828	1057	1380	1898	2002	2103
H1T-39	172	314	438	606	706	854	1068	1436	1992	2101	2219
H1T-41	174	329	462	633	731	880	1079	1492	2086	2200	2336

CELL TYPE	Discharge Rate to 1.81 VPC / Hours								Minutes		
	24	12	8	5	4	3	2	1	30	15	1
H1T-23	136	229	304	415	469	535	642	842	1110	1171	1171
H1T-25	143	241	320	438	496	574	705	910	1239	1307	1307
H1T-27	149	254	337	460	524	614	768	978	1368	1443	1443
H1T-29	156	267	353	483	551	653	831	1047	1496	1578	1578
H1T-31	158	270	362	501	575	688	873	1115	1585	1672	1672
H1T-33	160	272	372	519	600	723	915	1183	1674	1765	1765
H1T-35	165	284	389	543	630	764	962	1241	1720	1815	1858
H1T-37	170	295	406	567	660	805	1009	1299	1767	1864	1968
H1T-39	171	310	431	594	688	831	1032	1358	1851	1952	2077
H1T-41	172	325	456	621	715	857	1056	1416	1934	2040	2186

AMP DATA @ 77°F (25°C) H1T CELLS

CELL TYPE	Discharge Rate to 1.83 VPC / Hours								Minutes	
	24	12	8	5	4	3	2	1	30	15
H1T-23	135	221	297	399	455	512	603	757	971	971
H1T-25	141	234	312	423	480	548	661	825	1095	1095
H1T-27	147	248	326	446	505	585	719	893	1218	1218
H1T-29	153	261	341	469	530	621	777	960	1342	1342
H1T-31	155	264	352	485	553	654	822	1020	1417	1417
H1T-33	156	266	363	501	575	687	867	1080	1492	1492
H1T-35	161	277	377	522	602	723	904	1139	1532	1532
H1T-37	166	288	392	543	629	760	941	1198	1572	1572
H1T-39	167	302	416	571	657	787	972	1268	1639	1639
H1T-41	169	315	441	598	684	814	1004	1338	1707	1707

CELL TYPE	Discharge Rate to 1.85 VPC / Hours								Minutes	
	24	12	8	5	4	3	2	1	30	15
H1T-23	134	214	290	386	437	492	568	701	900	900
H1T-25	140	228	303	408	461	525	621	762	990	990
H1T-27	145	242	317	431	486	559	675	824	1080	1080
H1T-29	150	256	330	453	511	592	728	885	1170	1170
H1T-31	151	257	341	470	531	620	776	943	1230	1230
H1T-33	153	259	352	486	551	649	824	1001	1290	1290
H1T-35	158	270	367	505	575	683	851	1056	1322	1322
H1T-37	163	280	382	523	599	718	879	1111	1354	1354
H1T-39	164	293	404	550	627	746	911	1168	1443	1443
H1T-41	166	306	425	576	655	774	942	1225	1532	1532

CELL TYPE	Discharge Rate to 1.88 VPC / Hours								Minutes	
	24	12	8	5	4	3	2	1	30	15
H1T-23	127	203	267	350	388	443	529	600	590	590
H1T-25	132	215	280	371	415	478	567	645	676	676
H1T-27	136	226	294	392	442	512	605	690	773	773
H1T-29	141	238	307	414	468	546	643	734	870	870
H1T-31	142	239	317	429	485	564	679	771	900	900
H1T-33	144	241	326	444	501	582	715	808	930	930
H1T-35	149	251	339	461	522	602	722	832	949	949
H1T-37	155	260	352	479	542	622	728	857	969	969
H1T-39	156	272	370	503	567	656	774	939	1071	1071
H1T-41	157	283	389	527	592	690	819	1024	1178	1178

CELL TYPE	Discharge Rate to 1.90 VPC / Hours								Minutes	
	24	12	8	5	4	3	2	1	30	15
H1T-23	124	192	249	324	354	420	495	556	557	557
H1T-25	127	203	263	345	384	447	524	605	605	605
H1T-27	130	214	276	367	413	474	554	654	689	689
H1T-29	133	225	290	388	443	502	584	703	773	773
H1T-31	135	227	299	402	456	518	611	735	779	779
H1T-33	137	229	307	415	470	535	637	766	785	785
H1T-35	142	237	319	430	489	556	650	784	798	798
H1T-37	147	245	330	444	509	577	663	802	810	810
H1T-39	149	256	345	470	531	602	694	909	969	969
H1T-41	150	266	361	496	552	627	724	1015	1128	1128

ACCESSORY INFORMATION

RACK AND SPILL CONTAINMENT INFORMATION						
NON-SEISMIC RACK TYPE						
Number of Cells	Rack Type	Rack Part Number	Rack Dimensions (Inches)			Spill Containment Part Number
			Length	Width	Height	
12	2-Tier	S42-2T-Z0-H-08	96.00	25.27	59.57	GNBEAGLE30100
	2-Step	S42-2S-Z0-H-08	96.00	50.75	26.50	GNBEAGLE55100
24	2-Tier	S42-2T-Z0-H-16	192.00	25.27	59.57	GNBEAGLE30196
	2-Step	S42-2S-Z0-H-16	192.00	50.75	26.50	GNBEAGLE55196

RACK AND SPILL CONTAINMENT INFORMATION						
SEISMIC RACK TYPE						
Number of Cells	Rack Type	Rack Part Number	Rack Dimensions (Inches)			Spill Containment Part Number
			Length	Width	Height	
12	2-Tier	S42-2T-Z4-H-08	96.00	25.27	59.57	GNBEAGLE30105
	2-Step	S42-2S-Z4-H-08	96.00	50.75	26.50	GNBEAGLE55105
24	2-Tier	S42-2T-Z4-H-16	192.00	25.27	59.57	GNBEAGLE30201
	2-Step	S42-2S-Z4-H-16	192.00	50.75	26.50	GNBEAGLE55201

RACK AND SPILL CONTAINMENT INFORMATION						
NEBS RACK TYPE						
Cells	Rack Type	Rack Part Number	Rack Dimensions (Inches)			Spill Containment Part Number
			Length	Width	Height	
12	2-tier/1-row Standard	S42-1R-NEB-H-09-S1	97.60	24.87	63.00	GNBEAGLE30102
	2-tier/1-row WECO	S42-1R-NEB-H-10-W1	110.50	22.72	63.00	GNBEAGLE28114
24	2-tier/1-row Standard	S42-1R-NEB-H-16-S1	191.20	24.87	63.00	GNBEAGLE30196
	2-tier/1-row WECO	S42-1R-NEB-H-18-W1	217.00	22.72	63.00	GNBEAGLE28222
	2-tier/2-row Standard	S42-2R-NEB-H-09-S1	97.60	49.62	63.00	GNBEAGLE54102
	2-tier/2-row WECO	S42-2R-NEB-H-10-W1	110.50	45.32	63.00	GNBEAGLE50114
48	2-tier/2-row Standard	S42-2R-NEB-H-16-S1	191.20	49.62	63.00	GNBEAGLE54196
	2-tier/2-row WECO	S42-2R-NEB-H-18-W1	217.00	45.32	63.00	GNBEAGLE50222

GNB Industrial Power – The Industry Leader.



GNB Industrial Power, a division of Exide Technologies, is a global leader in network power applications including communication/data networks, UPS systems for computers and control systems, electrical power generation and distribution systems, as well as a wide range of other industrial standby power applications. With a strong manufacturing base in both North America and Europe and a truly global reach (operations in more than 80 countries) in sales and service, GNB Industrial Power is best positioned to satisfy your back up power needs locally as well as all over the world.

Based on over 100 years of technological innovation the Network Power group leads the industry with the most recognized global brands such as ABSOLYTE®, GNB® FLOODED CLASSIC®, MARATHON®, RELAY GEL®, SONNENSCHN® and SPRINTER®. They have come to symbolize quality, reliability, performance and excellence in all the markets served.

GNB Industrial Power takes pride in its commitment to a better environment. Its Total Battery Management program, an integrated approach to manufacturing, distributing and recycling of lead acid batteries, has been developed to ensure a safe and responsible life cycle for all of its products.

GNB Industrial Power

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SECTION 33.20 2013-09

GNB
INDUSTRIAL POWER
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