

GNB Flooded  
**Classic**



# SPECIFICATIONS

## General Purpose Flooded Batteries

MCX — LEAD CALCIUM  
NAX — LEAD ANTIMONY  
NCX — LEAD CALCIUM

**GNB**

INDUSTRIAL POWER

**GENERAL PURPOSE  
TYPE MCX - LEAD CALCIUM**

**CAPACITIES — 175 A.H. TO 605 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) 1.00" (25.4mm) 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" (24.1 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
<b>Positive Plate</b>	11.56 in 293.6 mm	9.19 in 233.4 mm	.325 in 8.26 mm
<b>Negative Plate</b>	11.56 in 293.6 mm	9.19 in 233.4 mm	.220 in 5.59 mm

Cell Type	Amp-Hour Capacity <sup>1</sup>	Overall Dimensions			Approximate Weight		Electrolyte Per Cell
		Length	Width	Height	Net	Packed	
2-MCX-5*	176	6.25 in 159 mm	11.13 in 283 mm	18.25 in 464 mm	105 lbs 48 kg	111 lbs 50 kg	1.3 gal 4.9 liter
2-MCX-7*	256	6.25 in 159 mm	↓	↓	125 lbs 57 kg	131 lbs 59 kg	1.2 gal 4.5 liter
MCX-9	344	4.13 in 105 mm			80 lbs 36 kg	84 lbs 38 kg	1.6 gal 6.0 liter
MCX-11	432	5.13 in 130 mm			97 lbs 44 kg	102 lbs 46 kg	1.9 gal 7.2 liter
MCX-13	520	6.50 in 165 mm			118 lbs 54 kg	124 lbs 56 kg	3.0 gal 11.4 liter
MCX-15	608	6.50 in 165 mm			129 lbs 59 kg	135 lbs 61 kg	2.7 gal 10.2 liter

\*2 Cells per unit

<sup>1</sup>8 hour rate to 1.75 VPC @ 77°F (25°C)



**AMP DATA @ 77°F (25°C)  
MCX CELLS**

CELL TYPE	HOURS							MINUTES		
	8	5	4	3	2	1.5	1	30	15	1
<b>End Voltage — 1.75</b>										
2-MCX-5	22	30	36	44	57	68	85	117	157	234
2-MCX-7	32	46	54	66	86	102	128	176	231	339
MCX-9	43	61	72	88	114	136	170	234	304	448
MCX-11	54	76	90	110	143	170	213	293	380	550
MCX-13	65	91	108	132	171	204	255	351	457	654
MCX-15	76	106	126	154	200	238	298	410	535	756
<b>End Voltage — 1.78</b>										
2-MCX-5	21	29	35	42	54	65	80	109	148	204
2-MCX-7	32	45	52	63	81	98	120	164	217	295
MCX-9	42	60	70	84	108	130	160	218	287	389
MCX-11	53	75	87	105	135	163	200	273	355	479
MCX-13	63	90	104	126	162	196	240	327	425	569
MCX-15	74	105	122	147	189	228	280	382	494	657
<b>End Voltage — 1.81</b>										
2-MCX-5	20	28	34	41	53	62	76	102	140	173
2-MCX-7	30	43	50	62	79	94	114	153	203	250
MCX-9	40	57	67	82	105	125	152	204	269	331
MCX-11	51	71	84	103	132	156	191	255	330	407
MCX-13	61	85	101	123	158	187	229	306	392	483
MCX-15	71	99	118	144	184	218	267	357	453	559



**AMP DATA @ 77°F (25°C)  
MCX CELLS**

CELL TYPE	HOURS							
	8	5	4	3	2	1.5	1	0.5
<b>End Voltage — 1.84</b>								
2-MCX-5	19	28	32	39	49	58	71	92
2-MCX-7	29	41	48	58	74	87	107	138
MCX-9	38	55	64	77	98	116	142	184
MCX-11	48	69	80	97	123	145	178	230
MCX-13	57	83	96	116	147	174	213	276
MCX-15	67	97	112	135	172	203	249	322
<b>End Voltage — 1.88</b>								
2-MCX-5	18	25	29	35	44	51	61	76
2-MCX-7	27	38	44	53	66	77	92	114
MCX-9	36	50	58	70	88	103	122	152
MCX-11	45	63	73	88	110	129	153	190
MCX-13	54	75	87	105	132	154	183	228
MCX-15	63	88	102	123	154	180	214	266
<b>End Voltage — 1.90</b>								
2-MCX-5	17	24	27	32	40	46	54	66
2-MCX-7	26	35	41	48	60	69	81	99
MCX-9	34	47	54	64	80	92	108	132
MCX-11	43	59	68	80	100	115	135	165
MCX-13	51	71	81	96	120	138	162	198
MCX-15	60	83	95	112	140	161	189	231
<b>End Voltage — 1.92</b>								
2-MCX-5	16	22	24	28	36	41	48	58
2-MCX-7	24	32	37	43	54	62	72	86
MCX-9	32	43	49	57	72	82	96	115
MCX-11	40	54	61	71	90	103	120	144
MCX-13	48	65	73	85	108	123	144	173
MCX-15	56	76	85	99	126	144	168	202

**GENERAL PURPOSE  
TYPE NAX — LEAD ANTIMONY  
TYPE NCX — 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 Mats
- Posts — NAX/NCX 7-17 two-1.5" (38.1 mm) square  
NAX/NCX 19-27 four-1.0" (25.4 mm) square  
NAX/NCX 29-35 four-1.5" (38.1 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" (69.9 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 — PVC Jar and Cover
  - UL 94 — V-O / 32% L.O.I. Rated
  - NCX/NAX 23 to 27 Sizes Only

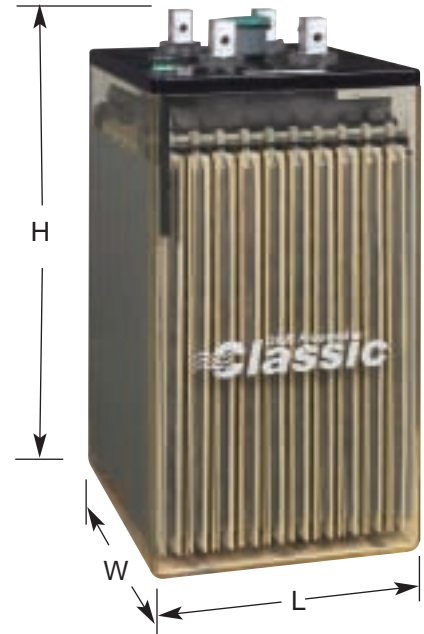


Plate Dimensions	Height	Width	Thickness
<b>Positive Plate</b>	15.0 in 381.0 mm	12.5 in 317.5 mm	.325 in 8.26 mm
<b>Negative Plate</b>	15.0 in 381.0 mm	12.5 in 317.5 mm	.220 in 5.59 mm

Cell Type	Amp-Hour Capacity <sup>1</sup>	Overall Dimensions			Approximate Weight		Electrolyte Per Cell
		Length	Width	Height	Net	Packed	
NAX/NCX-7	552	7.38 in 1.87 mm	14.5 in 368 mm	22.13 in 562 mm	160 lbs 72 kg	168 lbs 76 kg	6.4 gal 24.2 liter
NAX/NCX-9	688				177 lbs 80 kg	189 lbs 86 kg	6.0 gal 22.7 liter
NAX/NCX-11	824				195 lbs 89 kg	207 lbs 94 kg	5.6 gal 21.2 liter
NAX/NCX-13	952				213 lbs 97 kg	225 lbs 102 kg	5.1 gal 19.3 liter
NAX/NCX-15	1072				231 lbs 105 kg	243 lbs 110 kg	5.0 gal 18.9 liter
NAX/NCX-17	1200				269 lbs 112 kg	281 lbs 128 kg	4.9 gal 18.5 liter
NAX/NCX-19	1368	9.25 in 235 mm		22.5 in 572 mm	282 lbs 128 kg	294 lbs 134 kg	6.3 gal 23.8 liter
NAX/NCX-21	1496				301 lbs 137 kg	313 lbs 142 kg	6.0 gal 22.7 liter
NAX/NCX-23*	1680	11.38 in 289 mm			348 lbs 158 kg	366 lbs 166 kg	8.0 gal 30.3 liter
NAX/NCX-25*	1808				364 lbs 165 kg	382 lbs 174 kg	7.6 gal 28.8 liter
NAX/NCX-27*	1944				380 lbs 173 kg	398 lbs 181 kg	7.3 gal 27.6 liter
NAX/NCX-29	2152	14.56 in 370 mm			446 lbs 203 kg	464 lbs 211 kg	11.5 gal 43.5 liter
NAX/NCX-31	2280				462 lbs 210 kg	480 lbs 218 kg	10.9 gal 41.3 liter
NAX/NCX-33	2416				479 lbs 218 kg	497 lbs 226 kg	10.3 gal 39.0 liter
NAX/NCX-35	2552				496 lbs 225 kg	514 lbs 234 kg	9.7 gal 36.7 liter

<sup>1</sup>8 hour rate to 1.75 VPC @ 77°F (25°C)

**AMP DATA @ 77°F (25°C)  
NAX/NCX CELLS**

CELL TYPE	HOURS							MINUTES		
	8	5	4	3	2	1.5	1	30	15	1
<b>End Voltage — 1.75</b>										
NAX/NCX-7	69	96	112	134	170	207	245	300	340	436
NAX/NCX-9	86	124	138	165	204	240	300	454	515	712
NAX/NCX-11	103	149	167	200	252	300	375	561	686	880
NAX/NCX-13	119	171	198	238	292	345	450	666	814	1044
NAX/NCX-15	134	194	227	277	350	412	525	768	939	1204
NAX/NCX-17	150	216	254	312	405	465	600	867	1060	1306
NAX/NCX-19	171	246	290	357	460	535	675	953	1165	1494
NAX/NCX-21	187	270	317	390	515	590	750	1033	1263	1620
NAX/NCX-23	210	301	354	436	560	660	825	1136	1389	1782
NAX/NCX-25	226	326	384	472	615	725	900	1232	1506	1932
NAX/NCX-27	243	351	412	507	670	785	975	1327	1622	2080
NAX/NCX-29	269	389	455	555	715	857	1050	1429	1747	2240
NAX/NCX-31	285	411	483	595	770	925	1125	1531	1872	2400
NAX/NCX-33	302	435	512	629	820	995	1200	1633	1966	2560
NAX/NCX-35	319	459	539	663	868	1053	1275	1735	2121	2720
<b>End Voltage — 1.78</b>										
NAX/NCX-7	67	93	108	129	165	197	228	282	324	416
NAX/NCX-9	83	120	132	156	196	228	279	376	432	555
NAX/NCX-11	100	144	162	193	242	285	349	470	540	686
NAX/NCX-13	115	166	190	228	280	328	419	564	648	814
NAX/NCX-15	130	187	220	261	336	391	488	658	756	939
NAX/NCX-17	146	209	244	293	389	442	558	752	864	1061
NAX/NCX-19	165	239	279	333	442	508	628	846	972	1165
NAX/NCX-21	182	262	305	366	494	561	698	940	1080	1264
NAX/NCX-23	202	292	341	407	538	627	767	1034	1188	1390
NAX/NCX-25	219	316	369	440	590	689	837	1128	1296	1507
NAX/NCX-27	237	340	396	476	643	746	907	1222	1404	1622
NAX/NCX-29	260	375	441	522	694	814	977	1316	1512	1747
NAX/NCX-31	275	399	465	555	747	879	1046	1410	1620	1872
NAX/NCX-33	292	422	492	586	795	945	1116	1504	1728	1997
NAX/NCX-35	310	445	518	623	842	1000	1186	1598	1836	2122
<b>End Voltage — 1.81</b>										
NAX/NCX-7	65	90	104	124	153	182	208	255	285	348
NAX/NCX-9	81	117	127	152	184	211	255	340	380	440
NAX/NCX-11	97	140	156	185	227	264	319	425	475	550
NAX/NCX-13	112	162	183	218	263	304	383	510	570	660
NAX/NCX-15	127	182	211	252	315	363	446	595	665	770
NAX/NCX-17	141	203	236	285	365	409	510	680	760	880
NAX/NCX-19	161	232	267	324	414	471	574	765	855	966
NAX/NCX-21	176	254	295	357	464	519	638	850	950	1071
NAX/NCX-23	197	284	327	396	505	581	701	935	1045	1176
NAX/NCX-25	213	307	357	428	554	638	765	1020	1140	1285
NAX/NCX-27	229	330	383	464	603	691	829	1105	1235	1394
NAX/NCX-29	254	364	423	509	643	754	893	1190	1330	1700
NAX/NCX-31	268	387	446	540	693	814	956	1275	1425	1810
NAX/NCX-33	284	410	476	571	738	875	1020	1360	1520	1930
NAX/NCX-35	300	432	505	606	781	926	1084	1445	1615	2050



**AMP DATA @ 77°F (25°C)  
NAX/NCX CELLS**

CELL TYPE	HOURS						
	8	5	4	3	2	1.5	1
<b>End Voltage — 1.84</b>							
NAX/NCX-7	62	87	98	118	139	163	183
NAX/NCX-9	78	110	124	144	167	190	225
NAX/NCX-11	94	132	150	176	207	237	281
NAX/NCX-13	108	152	177	210	239	273	338
NAX/NCX-15	123	172	201	240	287	325	394
NAX/NCX-17	137	192	224	269	332	367	450
NAX/NCX-19	156	219	254	306	377	423	506
NAX/NCX-21	171	240	280	336	422	466	563
NAX/NCX-23	191	268	310	374	459	521	619
NAX/NCX-25	207	290	339	404	504	573	675
NAX/NCX-27	222	312	364	437	549	620	731
NAX/NCX-29	246	344	402	480	586	677	787
NAX/NCX-31	260	366	423	510	631	730	843
NAX/NCX-33	276	387	452	538	672	786	900
NAX/NCX-35	291	408	476	572	711	832	956
<b>End Voltage — 1.86</b>							
NAX/NCX-7	60	83	94	112	129	151	169
NAX/NCX-9	74	104	115	137	155	175	207
NAX/NCX-11	89	124	140	168	192	219	259
NAX/NCX-13	103	144	165	198	222	252	311
NAX/NCX-15	116	162	189	226	266	301	362
NAX/NCX-17	130	180	210	253	308	339	414
NAX/NCX-19	148	205	238	288	350	391	466
NAX/NCX-21	162	226	262	316	391	431	518
NAX/NCX-23	181	250	291	352	426	482	569
NAX/NCX-25	196	273	318	380	467	529	621
NAX/NCX-27	211	293	341	411	509	573	673
NAX/NCX-29	232	324	378	452	543	625	724
NAX/NCX-31	247	342	397	480	585	675	776
NAX/NCX-33	262	364	424	506	623	726	828
NAX/NCX-35	276	384	446	538	659	768	879
<b>End Voltage — 1.88</b>							
NAX/NCX-7	57	78	90	105	119	138	152
NAX/NCX-9	70	96	108	130	143	161	186
NAX/NCX-11	84	116	132	160	176	201	233
NAX/NCX-13	97	134	154	188	204	231	279
NAX/NCX-15	110	152	176	214	245	276	326
NAX/NCX-17	123	169	196	240	284	312	372
NAX/NCX-19	140	192	222	273	322	355	419
NAX/NCX-21	153	212	245	300	361	395	465
NAX/NCX-23	171	235	272	333	392	442	512
NAX/NCX-25	186	256	297	364	431	486	558
NAX/NCX-27	199	275	318	390	469	526	605
NAX/NCX-29	220	305	353	429	500	574	651
NAX/NCX-31	234	321	371	455	539	619	697
NAX/NCX-33	248	342	396	485	574	666	744
NAX/NCX-35	261	360	416	510	607	705	790
<b>End Voltage — 1.92</b>							
NAX/NCX-7	48	65	73	85	93	105	115
NAX/NCX-9	60	82	89	108	112	122	141
NAX/NCX-11	72	99	108	131	139	153	176
NAX/NCX-13	84	114	129	156	161	176	212
NAX/NCX-15	95	128	147	179	193	210	247
NAX/NCX-17	106	144	164	200	223	237	282
NAX/NCX-19	120	163	186	228	253	273	317
NAX/NCX-21	132	180	205	250	283	301	353
NAX/NCX-23	147	200	228	278	308	337	388
NAX/NCX-25	160	218	246	304	338	370	423
NAX/NCX-27	172	234	266	325	369	400	458
NAX/NCX-29	190	257	294	359	393	437	493
NAX/NCX-31	200	273	311	380	423	471	528
NAX/NCX-33	214	291	328	405	451	507	564
NAX/NCX-35	225	306	348	425	477	537	599

#### GLOBAL OPERATIONS

##### NORTH AMERICA

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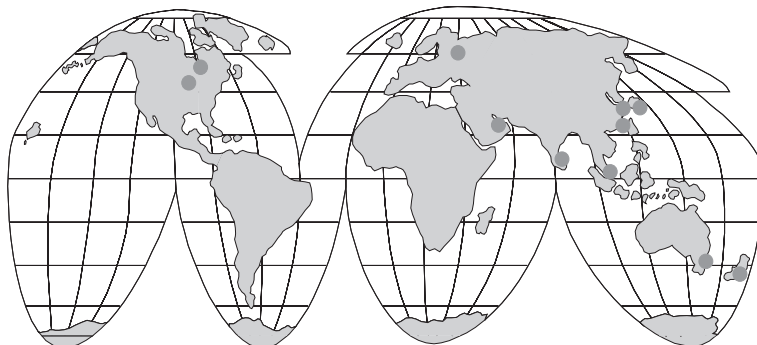
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FAX: 91.80.550.0582

## Industry Leader in Network Power...



The Network Power Division of Exide Technologies is *the* global leader in stored electrical energy solutions for all major critical reserve power applications and needs. Such network power applications include communication/data networks, UPS systems for computers and control systems, and electrical power generation and distribution systems. With a strong manufacturing base in both North America and Europe and a truly global reach (operations in greater than 80 countries) in sales and service, the Network Power Division has all of the tools necessary to satisfy your power needs.

## Global Brands...

**ABSOLYTE**

**MARATHON**<sup>TM</sup>

**Sprinter**

**GNB Flooded Classic**

**Sonnenschein**

Based on over 100 years of technological innovation, the Network Power Division continues to lead the industry with such recognized global brands as Absolyte, Sonnenschein, Marathon, Sprinter, and Flooded Classic. These products and brands are synonymous with quality, reliability, performance and excellence in all markets served.

## Total Battery Management...



In addition to being the leader in delivering premium products to the market, Exide Technologies takes pride in its commitment to the environment. As part of a complete approach to manufacturing, distributing, and recycling lead acid batteries, the Total Battery Management program has been developed to ensure a safe and responsible life cycle for all of our products.

[www.gnb.com](http://www.gnb.com)

SECTION 33.40 REV 8/02

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**GNB**

**INDUSTRIAL POWER**

A Division of **EXIDE** Technologies

