MARATHON™

Industrial Batteries – Standby Power
Marathon L
Reliable and safe energy in long-term storage.

Specifications

EXIDE TECHNOLOGIES

This well-proven battery system guarantees safety at all times.

Specifications

- Marathon L provides a solid safety package for storing electrical energy within the AGM range
- Excellent high current performance combined with high service life
- Maintenance-free (no topping up) during the whole service life
- Nominal capacity 14–575 Ah
- 12 years design life for blocks/cells at 20°C ambient temperature (80% remaining capacity)
- In compliance with IEC 896-2
- UL 94-V0 version is in compliance with BS 6290 Part 4
- Grid plate construction consisting of a lead calcium alloy
- Very low gassing due to internal gas recombination (99% efficient)
- Low self discharge rate
- Short recharging time
- Proof against deep discharge according to DIN 43 539 T5
- Trouble-free transportation of operational blocks and cells, no restrictions for most rail, road, sea and air transportation (IATA, DGR clause A 67)
- Completely recyclable

More power for standby power.

Applications

Various capacities make the Marathon L supremely versatile for applications such as telecommunications, emergency lighting, railways, utilities and other safety power supplies.

Valve regulated lead acid batteries

Grid plate

Nominal capacity 14–575 Ah

Block battery

Single cell

Design life: 12 years

Maintenance-free (no topping up)

Proof against deep discharge acc. to DIN 43 539 T5

Recyclable

Special high current performance

Type	Part number	Nominal voltage	Capacity			Length* (l)	Width* (b/w)	Height* (h)	Weight	Internal resistance acc. to IEC 896-2	Terminal
	Standard	V	C_{20} 1.8 V/C 20°C Ah	C_{10} 1.8 V/C 20°C Ah	C_1 1.6 V/C 20°C Ah	mm	mm	mm	approx. kg	m Ω	
L12V15	NALL120015HM0MA	12	14.4	14.0	9.9	181	76	167	6.5	14.00	M-M6
L12V24	NALL120024HM0MA	12	24.5	23.0	15.5	168	127	174	10.0	10.00	M-M6
L12V32	NALL120032HM0MA	12	33.0	31.5	21.4	198	168	175	13.5	8.00	M-M6
L12V42	NALL120042HM0MB	12	44.0	42.0	29.4	234	169	190	18.5	7.00	M-M6
L12V55	NALL120055HM0MB	12	58.0	55.0	36.0	272	166	190	22.0	5.80	M-M6
L12V80	NALL120080HM0MA	12	84.0	80.0	51.2	359	172	226	30.0	4.20	M-M8
L6V110	NALL060110HM0MA	6	118.0	112.0	75.5	272	166	190	23.0	1.60	M-M8
L6V160	NALL060160HM0MA	6	170.0	162.0	111.5	359	171	226	31.5	1.30	M-M8
L2V220	NALL020220HM0MA	2	236.0	220.0	150.0	208	135	282	16.0	0.35	M-M12
L2V270	NALL020270HM0MA	2	289.0	270.0	183.0	208	135	282	18.3	0.28	M-M12
L2V320	NALL020320HM0MA	2	346.0	320.0	225.0	208	201	282	24.2	0.22	2xM-M12
L2V375	NALL020375HM0MA	2	404.0	375.0	262.0	208	201	282	26.5	0.18	2xM-M12
L2V425	NALL020425HM0MA	2	456.0	425.0	291.0	208	201	282	28.8	0.15	2xM-M12
L2V470	NALL020470HM0MA	2	507.0	470.0	324.0	208	270	282	32.6	0.14	2xM-M12
L2V520	NALL020520HM0MA	2	559.0	520.0	357.0	208	270	282	35.0	0.13	2xM-M12
L2V575	NALL020575HM0MA	2	618.0	575.0	394.0	208	270	282	37.3	0.11	2xM-M12

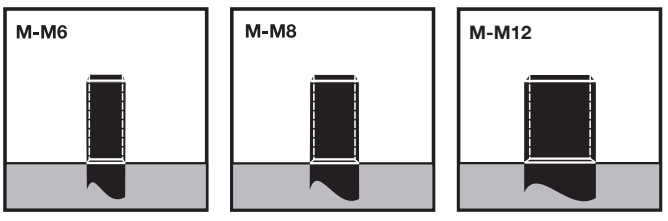
* *+/-1mm*

Discharge figures are also valid for UL 94-V0 version. Change "H" to "V" in the part number.
E.g.:
Standard *NALL120015**H**M0MA*
UL 94-V0 *NALL120015**V**M0MA*

Container, terminal and torque

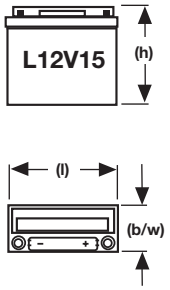
Container: UL 94-HB
= Polypropylene (PP)

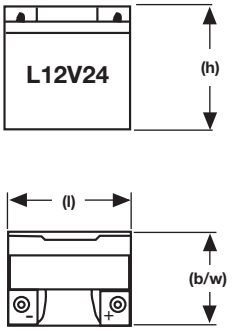
UL 94-V0
= Polypropylene (PP)

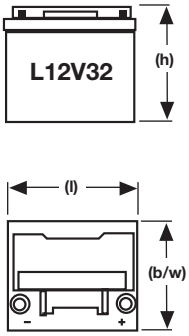


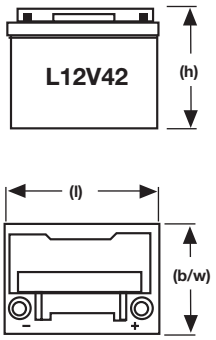
6 Nm **8 Nm** **25 Nm**

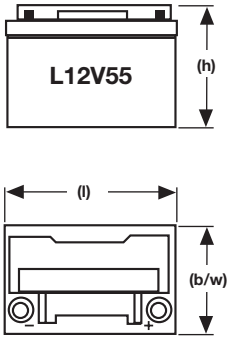
Dimensions

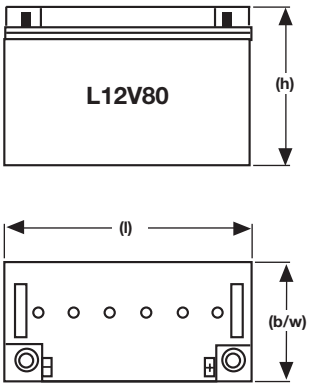


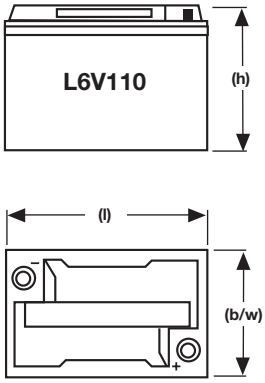


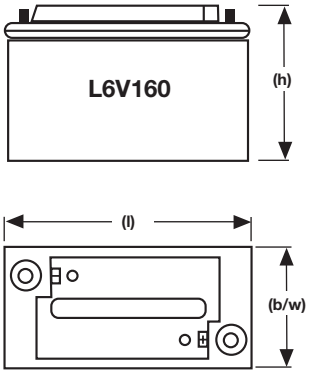


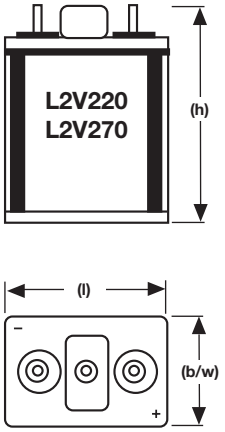


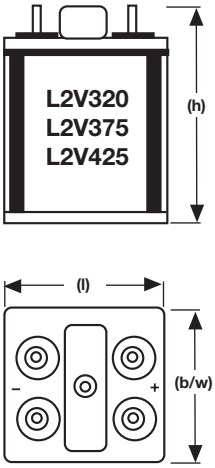


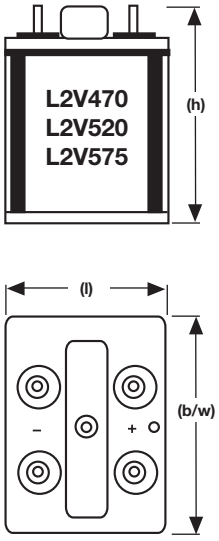




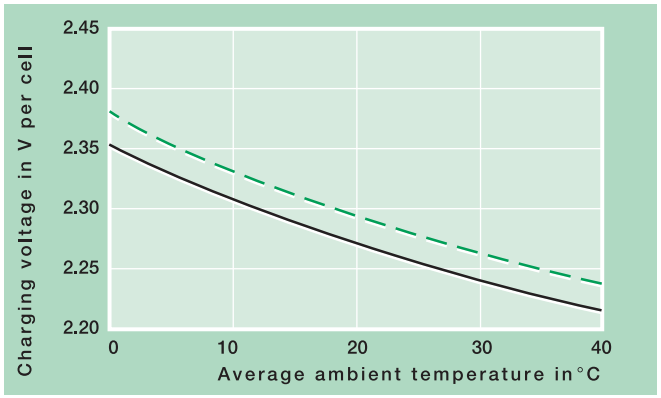








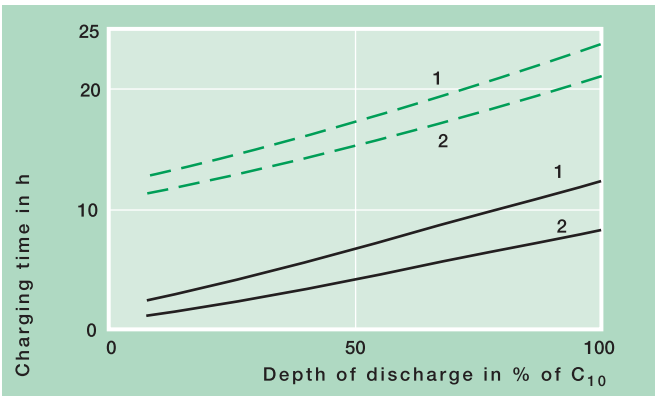
Not to scale!



--- max. permissible voltage for continuous charging

—— optimum voltage for continuous charging

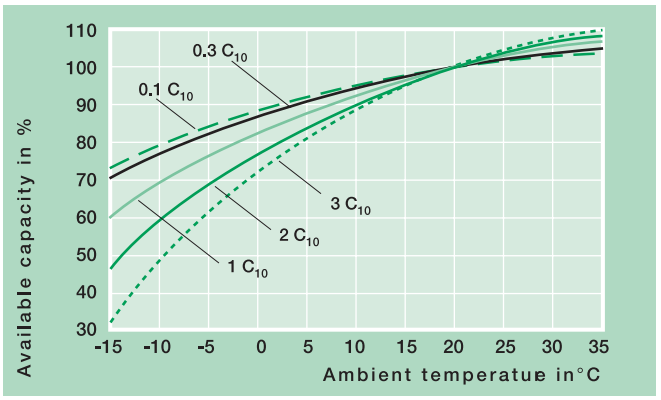
For continuous charging we recommend a voltage of 2.27 V/cell at 20°C. The charging voltage must be compensated to the curve for a continuously different battery ambient temperature.



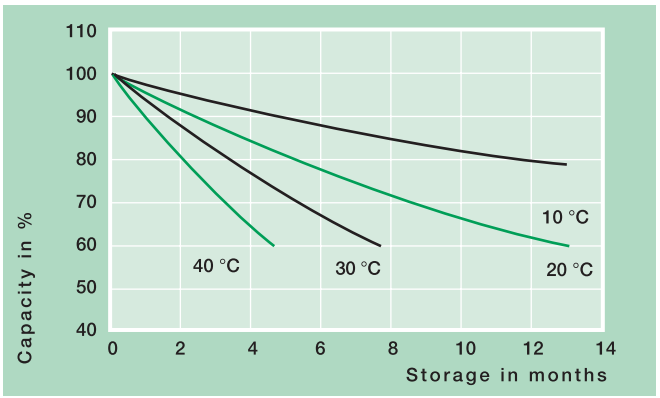
1: 0.1 C_{10}
2: 0.2 C_{10}

--- State of charge 100%
— State of charge 90%

Recharging time in relation to initial charging current. For 2.27 V/cell at 20°C.



Available capacity in relation to the ambient temperature.



Self-discharge in relation to the storage temperature.

1.95 V/C –Discharge in A at 20°C															
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h	20h
L12V15	NALL120015HM0MA	22	21	18	15	14	10.6	8.2	6.5	4.0	2.8	1.8	1.3	1.2	0.6
L12V24	NALL120024HM0MA	Data not available up to now													
L12V32	NALL120032HM0MA	45	44	39	33	29	23.0	17.5	14.2	8.2	6.0	4.0	2.7	2.4	1.3
L12V42	NALL120042HM0MB	67	63	54	46	40	32.0	24.0	19.0	11.0	8.0	5.4	3.6	3.2	1.7
L12V55	NALL120055HM0MB	69	65	59	52	46	35.5	28.0	23.0	13.9	10.4	6.6	4.7	4.2	2.2
L12V80	NALL120080HM0MA	85	83	78	69	62	51.0	40.0	33.0	20.3	15.1	9.6	7.0	6.1	3.2
L6V110	NALL060110HM0MA	143	139	125	111	99	80.0	62.0	50.0	30.2	23.0	14.5	9.9	8.6	4.5
L6V160	NALL060160HM0MA	177	175	170	158	143	118.0	90.5	74.5	45.2	32.0	21.8	14.5	12.7	6.7
L2V220	NALL020220HM0MA	215	203	176	161	146	122.0	99.0	85.5	55.6	42.0	28.3	19.5	16.2	8.7
L2V270	NALL020270HM0MA	248	237	210	190	174	148.0	121.0	105.0	68.4	51.5	34.7	23.9	19.9	10.7
L2V320	NALL020320HM0MA	358	336	288	256	230	190.0	153.0	130.0	83.7	62.0	41.9	28.9	23.9	12.8
L2V375	NALL020375HM0MA	405	380	330	295	265	222.0	179.0	152.0	98.0	72.7	49.1	33.9	28.0	15.1
L2V425	NALL020425HM0MA	420	394	344	310	282	236.0	192.0	163.0	107.3	81.1	54.7	37.7	31.2	16.8
L2V470	NALL020470HM0MA	460	433	390	348	317	272.0	217.0	183.0	118.0	88.4	60.2	41.5	34.6	18.5
L2V520	NALL020520HM0MA	490	468	417	374	346	291.0	238.0	202.0	130.0	97.8	66.6	45.9	38.3	20.4
L2V575	NALL020575HM0MA	515	495	447	404	370	317.0	260.0	221.0	143.0	108.0	73.6	50.7	42.4	22.6

1.90 V/C – Discharge in A at 20°C															
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h	20h
L12V15	NALL120015HM0MA	34	30	23	19	16	12.4	9.5	7.7	4.8	3.3	2.3	1.5	1.3	0.6
L12V24	NALL120024HM0MA	Data not available up to now													
L12V32	NALL120032HM0MA	73	65	50	41	34	27.0	21.0	17.0	10.1	7.2	5.0	3.2	2.8	1.5
L12V42	NALL120042HM0MB	102	91	71	57	48	37.0	29.0	23.0	13.9	10.2	6.7	4.4	3.8	2.0
L12V55	NALL120055HM0MB	104	94	77	65	56	44.0	33.5	27.5	17.1	12.7	8.0	5.6	4.9	2.6
L12V80	NALL120080HM0MA	125	119	102	87	77	61.5	47.5	39.2	24.8	18.4	12.0	8.3	7.3	3.8
L6V110	NALL060110HM0MA	222	208	169	141	121	94.0	73.0	59.0	37.0	28.0	17.8	11.8	10.3	5.4
L6V160	NALL060160HM0MA	270	260	226	198	175	139.0	107.0	84.5	50.2	35.6	24.2	16.7	14.7	7.8
L2V220	NALL020220HM0MA	325	300	250	216	191	156.0	124.0	103.0	65.8	50.0	33.3	22.7	18.8	10.1
L2V270	NALL020270HM0MA	380	350	298	259	232	190.0	152.0	128.0	81.0	61.3	40.8	27.8	23.1	12.4
L2V320	NALL020320HM0MA	505	465	394	345	306	248.0	196.0	162.0	99.0	73.8	49.3	33.6	27.8	14.9
L2V375	NALL020375HM0MA	582	540	455	398	351	288.0	228.0	190.0	116.0	86.5	57.8	39.4	32.6	17.5
L2V425	NALL020425HM0MA	625	578	493	424	372	305.0	241.0	201.0	127.0	96.5	64.3	43.8	36.3	19.5
L2V470	NALL020470HM0MA	690	644	550	482	428	352.0	274.0	228.0	145.0	109.0	72.6	49.4	41.0	21.8
L2V520	NALL020520HM0MA	740	685	590	515	459	379.0	299.0	250.0	159.5	120.5	80.3	54.7	45.3	24.1
L2V575	NALL020575HM0MA	790	730	635	560	500	414.0	329.0	276.0	176.0	133.0	88.8	60.5	50.1	26.7

Discharge figures are also valid for UL 94-V0 version. Change "H" to "V" in the part number.
E.g.:
Standard *NALL120015**H**M0MA*
UL 94-V0 *NALL120015**V**M0MA*

Constant current discharge

1.85 V/C – Discharge in A at 20°C														
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h	20h
L12V15	NALL120015HM0MA	46	39	28	22	18	14.1	10.7	8.6	5.3	3.7	2.4	1.6	1.3	0.7
L12V24	NALL120024HM0MA	Data not available up to now													
L12V32	NALL120032HM0MA	100	84	61	48	40	30.0	23.0	18.8	11.4	8.5	5.5	3.5	3.0	1.6
L12V42	NALL120042HM0MB	137	118	86	68	56	41.5	32.0	26.0	15.5	11.5	7.4	4.8	4.0	2.1
L12V55	NALL120055HM0MB	139	123	95	76	64	49.0	37.5	31.0	18.7	13.8	9.1	6.2	5.2	2.8
L12V80	NALL120080HM0MA	165	152	125	103	89	69.5	53.0	44.0	27.0	19.8	13.2	9.0	7.6	4.0
L6V110	NALL060110HM0MA	300	265	208	169	141	106.0	81.0	66.5	40.3	30.5	19.8	13.0	10.8	5.7
L6V160	NALL060160HM0MA	358	328	272	232	201	156.0	119.0	96.0	55.0	38.9	27.0	17.9	15.5	8.2
L2V220	NALL020220HM0MA	435	395	324	276	241	192.0	148.0	122.0	75.5	56.4	37.1	25.2	21.0	11.3
L2V270	NALL020270HM0MA	515	470	389	331	290	233.0	182.0	150.0	92.5	69.2	45.5	30.9	25.7	13.8
L2V320	NALL020320HM0MA	655	595	490	417	360	288.0	223.0	184.0	112.0	82.7	54.4	36.8	30.6	16.5
L2V375	NALL020375HM0MA	750	690	564	482	422	337.0	263.0	215.0	131.0	97.0	63.7	43.2	35.9	19.4
L2V425	NALL020425HM0MA	840	765	629	540	471	374.0	289.0	238.0	146.0	109.0	71.7	48.7	40.6	21.8
L2V470	NALL020470HM0MA	895	820	688	595	520	419.0	321.0	264.0	162.0	121.0	80.5	54.4	45.0	24.3
L2V520	NALL020520HM0MA	955	880	743	640	560	452.0	350.0	289.0	178.0	133.7	89.0	60.2	49.8	26.8
L2V575	NALL020575HM0MA	1015	940	800	695	612	499.0	388.0	321.0	198.0	148.0	98.4	66.6	55.1	29.6

1.80 V/C – Discharge in A at 20°C														
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h	20h
L12V15	NALL120015HM0MA	56	46	32	24	20	15.0	11.5	9.3	5.7	4.1	2.5	1.7	1.4	0.7
L12V24	NALL120024HM0MA	Data not available up to now													
L12V32	NALL120032HM0MA	120	99	70	54	44	33.0	24.5	20.2	12.3	9.1	5.9	3.7	3.2	1.7
L12V42	NALL120042HM0MB	168	140	98	76	62	46.0	34.0	27.5	16.6	12.4	7.7	4.9	4.2	2.2
L12V55	NALL120055HM0MB	170	143	106	83	69	53.0	40.0	33.0	19.8	14.3	9.6	6.5	5.5	2.9
L12V80	NALL120080HM0MA	210	182	142	115	97	75.5	57.0	47.0	28.0	20.5	13.8	9.3	8.0	4.2
L6V110	NALL060110HM0MA	373	317	234	187	153	115.0	86.0	71.0	43.3	32.8	20.8	13.5	11.2	5.9
L6V160	NALL060160HM0MA	434	390	309	258	221	170.0	126.0	102.0	58.3	42.1	28.4	18.8	16.2	8.5
L2V220	NALL020220HM0MA	525	470	382	320	275	214.0	163.0	133.0	80.0	59.4	38.8	26.3	22.0	11.8
L2V270	NALL020270HM0MA	630	565	456	384	332	261.0	200.0	163.0	98.0	72.8	47.6	32.2	27.0	14.4
L2V320	NALL020320HM0MA	790	715	575	485	418	326.0	247.0	202.0	120.0	87.0	56.7	38.4	32.0	17.3
L2V375	NALL020375HM0MA	915	825	670	562	486	381.0	290.0	236.0	141.0	102.0	66.5	45.0	37.5	20.2
L2V425	NALL020425HM0MA	1025	920	744	622	535	416.0	317.0	259.0	155.0	115.0	75.0	50.8	42.5	22.8
L2V470	NALL020470HM0MA	1085	980	805	688	590	466.0	356.0	291.0	174.0	127.7	84.3	56.7	47.0	25.3
L2V520	NALL020520HM0MA	1160	1060	875	745	644	512.0	392.0	320.0	192.0	141.0	93.3	62.8	52.0	27.9
L2V575	NALL020575HM0MA	1235	1130	948	816	709	568.0	434.0	354.0	212.0	156.0	103.2	69.4	57.5	30.9

Discharge figures are also valid for UL 94-V0 version. Change "H" to "V" in the part number.

E.g.:

Standard *NALL120015**H**M0MA*

UL 94-V0 *NALL120015**V**M0MA*

1.75 V/C – Discharge in A at 20°C														
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h	20h
L12V15	NALL120015HM0MA	62	51	35	26	21	15.8	11.8	9.5	5.9	4.3	2.6	1.7	1.5	0.8
L12V24	NALL120024HM0MA	Data not available up to now													
L12V32	NALL120032HM0MA	135	110	75	58	46	34.5	25.0	20.5	12.6	9.2	6.0	3.8	3.3	1.7
L12V42	NALL120042HM0MB	189	154	107	81	65	48.0	35.0	28.5	16.8	12.6	7.9	5.1	4.3	2.3
L12V55	NALL120055HM0MB	193	161	115	88	73	55.0	41.5	34.5	20.5	14.6	9.8	6.6	5.6	3.0
L12V80	NALL120080HM0MA	249	209	154	122	101	78.5	59.0	48.8	28.8	21.0	14.2	9.5	8.2	4.4
L6V110	NALL060110HM0MA	430	363	259	202	163	120.0	90.0	73.5	44.2	33.6	21.4	13.8	11.5	6.1
L6V160	NALL060160HM0MA	505	442	340	275	232	175.0	130.0	105.0	60.0	43.5	29.2	19.5	16.6	8.8
L2V220	NALL020220HM0MA	615	545	432	354	302	232.0	176.0	141.0	83.5	61.2	39.6	26.8	22.3	12.0
L2V270	NALL020270HM0MA	740	660	524	434	370	283.0	214.0	173.0	102.0	75.0	48.6	32.9	27.4	14.7
L2V320	NALL020320HM0MA	945	835	645	527	450	349.0	263.0	214.0	125.0	88.8	57.6	39.0	32.4	17.5
L2V375	NALL020375HM0MA	1090	965	750	612	524	406.0	308.0	250.0	146.0	104.0	67.5	45.7	38.0	20.5
L2V425	NALL020425HM0MA	1200	1065	835	690	590	451.0	340.0	274.0	162.0	118.0	76.5	51.8	43.1	23.2
L2V470	NALL020470HM0MA	1290	1150	905	765	645	503.0	377.0	305.0	179.0	130.3	85.7	57.3	47.4	25.7
L2V520	NALL020520HM0MA	1390	1245	990	830	710	555.0	417.0	337.0	197.5	144.0	94.8	63.5	52.4	28.2
L2V575	NALL020575HM0MA	1480	1335	1075	900	776	606.0	459.0	372.0	218.0	159.0	104.6	70.0	57.9	31.2

1.70 V/C – Discharge in A at 20°C														
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h	20h
L12V15	NALL120015HM0MA	68	54	37	27	22	16.3	12.1	9.7	6.1	4.4	2.7	1.8	1.5	0.8
L12V24	NALL120024HM0MA	Data not available up to now													
L12V32	NALL120032HM0MA	148	118	80	60	48	35.5	26.0	20.8	12.7	9.3	6.1	3.9	3.3	1.8
L12V42	NALL120042HM0MB	206	167	112	84	68	50.0	36.0	29.0	17.0	12.7	8.0	5.2	4.4	2.4
L12V55	NALL120055HM0MB	214	175	120	91	75	56.5	42.5	35.0	20.9	14.9	10.0	6.7	5.7	3.1
L12V80	NALL120080HM0MA	286	236	166	129	105	80.0	60.5	49.6	29.6	21.7	14.5	9.7	8.3	4.5
L6V110	NALL060110HM0MA	467	391	273	211	169	124.0	92.0	74.5	44.9	34.1	21.8	14.1	11.7	6.3
L6V160	NALL060160HM0MA	574	493	363	288	238	179.0	134.0	108.0	62.0	44.5	29.8	19.8	16.9	9.0
L2V220	NALL020220HM0MA	695	610	468	378	318	241.0	181.0	146.0	86.0	62.2	40.2	27.1	22.5	12.1
L2V270	NALL020270HM0MA	845	740	568	462	389	297.0	223.0	178.0	105.5	76.4	49.3	33.2	27.6	14.8
L2V320	NALL020320HM0MA	1105	955	710	562	473	361.0	271.0	220.0	127.0	90.6	58.4	39.4	32.7	17.6
L2V375	NALL020375HM0MA	1265	1100	825	658	554	424.0	319.0	257.0	149.0	106.0	68.5	46.2	38.3	20.6
L2V425	NALL020425HM0MA	1370	1195	915	738	617	468.0	351.0	282.0	166.0	120.0	77.6	52.3	43.5	23.4
L2V470	NALL020470HM0MA	1455	1290	995	818	684	528.0	391.0	314.0	182.0	133.0	86.7	57.8	47.6	25.9
L2V520	NALL020520HM0MA	1570	1400	1095	892	760	580.0	432.0	347.0	201.0	146.7	95.9	64.1	52.7	28.5
L2V575	NALL020575HM0MA	1665	1490	1180	970	828	635.0	476.0	383.0	222.0	162.0	106.0	70.9	58.3	31.4

Discharge figures are also valid for UL 94-V0 version. Change "H" to "V" in the part number.
E.g.:

Standard	*NALL120015**H**M0MA*
UL 94-V0	*NALL120015**V**M0MA*

Constant current discharge

1.65 V/C – Discharge in A at 20°C															
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h	20h
L12V15	NALL120015HM0MA	71	57	38	27.5	22.5	16.6	12.4	9.8	6.1	4.4	2.7	1.8	1.5	0.8
L12V24	NALL120024HM0MA	Data not available up to now													
L12V32	NALL120032HM0MA	156	125	83	62.0	50.0	36.5	26.5	21.1	12.8	9.4	6.1	3.9	3.3	1.8
L12V42	NALL120042HM0MB	219	175	116	86.0	70.0	51.0	36.5	29.2	17.1	12.8	8.1	5.2	4.4	2.4
L12V55	NALL120055HM0MB	233	188	125	94.0	77.0	58.0	43.5	35.5	21.2	15.2	10.1	6.8	5.7	3.1
L12V80	NALL120080HM0MA	320	261	174	134.0	109.0	81.5	61.5	50.4	30.0	22.1	14.8	9.9	8.4	4.5
L6V110	NALL060110HM0MA	496	413	283	216.0	175.0	128.0	93.5	75.0	45.5	34.5	21.9	14.2	11.8	6.4
L6V160	NALL060160HM0MA	635	541	386	300.0	246.0	183.0	137.5	110.5	62.9	45.2	30.0	20.0	17.1	9.1
L2V220	NALL020220HM0MA	775	670	500	400.0	330.0	249.0	185.0	149.0	87.0	63.0	40.6	27.2	22.6	12.1
L2V270	NALL020270HM0MA	935	815	610	486.0	405.0	305.0	227.0	182.0	106.5	77.3	49.8	33.4	27.7	14.9
L2V320	NALL020320HM0MA	1245	1055	765	595.0	495.0	374.0	277.0	223.0	128.0	91.8	59.0	39.6	32.9	17.6
L2V375	NALL020375HM0MA	1435	1215	880	695.0	575.0	436.0	324.0	260.0	150.0	107.5	69.2	46.5	38.5	20.7
L2V425	NALL020425HM0MA	1550	1325	980	775.0	642.0	485.0	360.0	288.0	168.0	122.0	78.4	52.5	43.7	23.5
L2V470	NALL020470HM0MA	1630	1420	1065	860.0	720.0	540.0	399.0	320.0	185.0	134.5	87.2	58.1	47.9	26.0
L2V520	NALL020520HM0MA	1765	1545	1170	948.0	797.0	597.0	441.0	353.0	204.0	148.5	96.5	64.4	53.0	28.7
L2V575	NALL020575HM0MA	1870	1650	1260	1025.0	865.0	655.0	485.0	389.0	225.0	164.0	106.6	71.1	58.6	31.6

1.60 V/C – Discharge in A at 20°C															
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h	20h
L12V15	NALL120015HM0MA	74	59	39	28	23	17.0	12.6	9.9	6.1	4.4	2.7	1.8	1.5	0.8
L12V24	NALL120024HM0MA	Data not available up to now													
L12V32	NALL120032HM0MA	160	129	85	64	51	37.5	27.0	21.4	12.9	9.5	6.1	3.9	3.3	1.8
L12V42	NALL120042HM0MB	226	180	118	88	71	51.5	37.0	29.4	17.2	12.8	8.1	5.2	4.4	2.4
L12V55	NALL120055HM0MB	248	198	130	97	79	59.0	44.0	36.0	21.5	15.4	10.1	6.8	5.7	3.1
L12V80	NALL120080HM0MA	338	273	182	138	111	83.0	62.5	51.2	30.4	22.4	15.0	10.0	8.4	4.5
L6V110	NALL060110HM0MA	519	431	291	222	178	130.0	95.0	75.5	45.9	34.7	21.9	14.2	11.8	6.4
L6V160	NALL060160HM0MA	672	567	400	309	250	187.0	139.0	111.5	63.2	45.4	30.0	20.0	17.1	9.1
L2V220	NALL020220HM0MA	850	725	525	410	338	254.0	187.0	150.0	87.5	63.5	40.8	27.3	22.7	12.2
L2V270	NALL020270HM0MA	1020	870	638	500	414	311.0	229.0	183.0	107.0	78.0	50.0	33.5	27.8	15.0
L2V320	NALL020320HM0MA	1400	1160	815	625	508	381.0	280.0	225.0	129.0	92.5	59.4	39.7	33.0	17.7
L2V375	NALL020375HM0MA	1600	1330	935	720	590	443.0	328.0	262.0	151.0	108.5	69.6	46.6	38.7	20.8
L2V425	NALL020425HM0MA	1700	1430	1020	800	658	494.0	364.0	291.0	169.0	123.0	78.8	52.7	43.8	23.5
L2V470	NALL020470HM0MA	1740	1505	1120	895	743	554.0	405.0	324.0	187.0	135.5	87.6	58.3	48.1	26.1
L2V520	NALL020520HM0MA	1885	1640	1225	983	817	609.0	446.0	357.0	206.5	149.5	96.9	64.6	53.2	28.8
L2V575	NALL020575HM0MA	2015	1755	1325	1065	886	669.0	492.0	394.0	228.0	165.0	107.0	71.3	58.8	31.7

Discharge figures are also valid for UL 94-V0 version. Change "H" to "V" in the part number.

E.g.:

Standard *NALL120015**H**M0MA*

UL 94-V0 *NALL120015**V**M0MA*

1.90 V/C – Discharge in W* at 20°C														
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h
L12V15	NALL120015HM0MA	399	357	275	222	188	148	116	98	57	44	29.0	19.0	16.0
L12V24	NALL120024HM0MA	Data not available up to now												
L12V32	NALL120032HM0MA	862	759	585	477	407	318	248	207	122	89	60.0	40.0	34.0
L12V42	NALL120042HM0MB	1203	1064	820	670	565	445	340	277	165	120	80.0	53.0	45.0
L12V55	NALL120055HM0MB	1223	1107	899	762	666	524	400	333	203	151	99.0	67.0	59.0
L12V80	NALL120080HM0MA	1484	1402	1188	1026	903	732	575	475	295	219	142.0	97.0	85.0
L6V110	NALL060110HM0MA	1310	1212	990	831	712	559	432	359	220	166	107.0	71.0	60.0
L6V160	NALL060160HM0MA	1554	1500	1312	1158	1023	820	632	512	299	212	144.0	100.0	86.0
L2V220	NALL020220HM0MA	615	570	485	420	370	307	246	207	131	99	66.4	45.4	37.8
L2V270	NALL020270HM0MA	735	675	575	504	448	370	297	251	160	122	81.5	55.7	46.4
L2V320	NALL020320HM0MA	920	855	725	630	555	456	357	296	187	143	96.1	66.2	54.9
L2V375	NALL020375HM0MA	1080	1000	850	740	650	527	412	348	219	167	112.5	77.5	64.3
L2V425	NALL020425HM0MA	1170	1085	915	795	700	577	459	388	249	190	128.0	88.0	73.0
L2V470	NALL020470HM0MA	1230	1155	1010	880	795	652	520	437	281	215	145.6	99.2	82.3
L2V520	NALL020520HM0MA	1300	1225	1070	950	850	706	569	480	309	237	161.0	109.7	91.0
L2V575	NALL020575HM0MA	1375	1300	1130	1005	915	770	621	525	341	262	178.0	121.3	100.5

**12V- and 6V-types: W/block; 2V-types: W/cell*

1.85 V/C – Discharge in W* at 20°C														
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h
L12V15	NALL120015HM0MA	519	442	321	254	210	164	127	106	64	48.0	31.0	20.0	17.0
L12V24	NALL120024HM0MA	Data not available up to now												
L12V32	NALL120032HM0MA	1132	955	696	555	468	355	271	222	136	100.0	66.0	43.0	36.0
L12V42	NALL120042HM0MB	1560	1335	975	780	650	500	376	310	185	135.0	88.0	57.0	48.0
L12V55	NALL120055HM0MB	1586	1383	1083	872	745	576	445	369	223	164.0	110.0	74.0	63.0
L12V80	NALL120080HM0MA	1929	1748	1416	1188	1026	817	636	523	323	235.0	157.0	107.0	91.0
L6V110	NALL060110HM0MA	1722	1530	1184	971	811	625	479	393	244	181.0	118.0	77.0	64.0
L6V160	NALL060160HM0MA	2007	1853	1544	1332	1158	917	705	569	328	232.0	160.0	110.0	93.0
L2V220	NALL020220HM0MA	775	710	585	505	440	363	282	236	146	109.0	72.5	49.7	41.5
L2V270	NALL020270HM0MA	930	850	700	604	532	438	343	287	178	133.5	89.0	61.0	50.9
L2V320	NALL020320HM0MA	1160	1070	885	750	655	527	410	340	212	161.0	106.8	72.6	60.6
L2V375	NALL020375HM0MA	1340	1230	1020	875	765	617	482	400	249	188.0	125.0	85.0	70.9
L2V425	NALL020425HM0MA	1490	1370	1135	970	855	685	543	450	282	213.0	142.0	96.6	80.5
L2V470	NALL020470HM0MA	1595	1480	1255	1080	955	770	599	496	308	234.0	157.8	108.5	89.2
L2V520	NALL020520HM0MA	1690	1570	1340	1160	1030	840	657	545	339	258.0	174.5	120.0	98.6
L2V575	NALL020575HM0MA	1785	1650	1420	1245	1105	907	719	599	374	285.0	193.0	132.7	109.0

**12V- and 6V-types: W/block; 2V-types: W/cell*

Discharge figures are also valid for UL 94-V0 version. Change "H" to "V" in the part number.
E.g.:
Standard *NALL120015**H**M0MA*
UL 94-V0 *NALL120015**V**M0MA*

1.80 V/C – Discharge in W* at 20°C														
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h
L12V15	NALL120015HM0MA	614	514	363	280	230	177	137	113	67	50.0	32.0	20.5	17.0
L12V24	NALL120024HM0MA	Data not available up to now												
L12V32	NALL120032HM0MA	1321	1114	796	618	511	385	289	237	144	107.0	70.0	45.0	37.0
L12V42	NALL120042HM0MB	1850	1560	1115	865	710	540	403	327	195	145.0	92.0	59.0	50.0
L12V55	NALL120055HM0MB	1866	1599	1208	953	794	611	472	389	234	170.0	116.0	77.0	65.5
L12V80	NALL120080HM0MA	2309	2040	1606	1321	1121	874	674	551	333	243.0	164.0	111.0	95.0
L6V110	NALL060110HM0MA	2048	1802	1357	1077	891	672	505	416	253	190.0	123.0	80.0	66.5
L6V160	NALL060160HM0MA	2384	2171	1756	1477	1264	984	747	600	347	248.0	169.0	114.0	96.5
L2V220	NALL020220HM0MA	915	830	675	575	498	398	303	248	151	114.0	75.0	51.4	43.2
L2V270	NALL020270HM0MA	1085	990	810	690	595	480	370	304	186	139.0	92.0	63.1	53.0
L2V320	NALL020320HM0MA	1380	1250	1010	860	735	580	440	364	222	167.5	110.6	75.2	62.8
L2V375	NALL020375HM0MA	1595	1440	1170	995	860	668	515	423	261	196.0	129.5	88.0	73.5
L2V425	NALL020425HM0MA	1750	1585	1305	1100	955	755	580	478	296	222.0	147.0	100.0	83.5
L2V470	NALL020470HM0MA	1940	1780	1470	1240	1080	855	657	540	331	247.0	164.6	111.4	92.4
L2V520	NALL020520HM0MA	2045	1875	1565	1330	1170	936	722	594	364	272.0	182.0	123.2	102.2
L2V575	NALL020575HM0MA	2150	1985	1675	1430	1260	1015	790	652	401	300.0	201.0	136.2	113.0

**12V- and 6V-types: W/block; 2V-types: W/cell*

1.75 V/C – Discharge in W* at 20°C														
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h
L12V15	NALL120015HM0MA	666	553	385	293	241	184	141	116	69	51	32.5	21.0	17.0
L12V24	NALL120024HM0MA	Data not available up to now												
L12V32	NALL120032HM0MA	1450	1206	847	655	537	400	296	241	146	109	71.0	46.0	38.0
L12V42	NALL120042HM0MB	2030	1690	1185	915	750	560	412	335	197	147	94.0	61.0	51.0
L12V55	NALL120055HM0MB	2077	1771	1294	1000	835	637	492	402	242	174	118.0	78.0	66.5
L12V80	NALL120080HM0MA	2679	2300	1729	1387	1169	908	693	570	340	248	168.0	113.0	96.0
L6V110	NALL060110HM0MA	2314	1995	1456	1144	938	698	525	431	261	196	126.0	81.0	67.5
L6V160	NALL060160HM0MA	2731	2432	1911	1563	1332	1022	773	624	357	255	173.0	116.0	97.5
L2V220	NALL020220HM0MA	1055	945	765	640	545	427	325	265	156	116	76.2	52.2	43.7
L2V270	NALL020270HM0MA	1250	1125	915	763	660	515	395	323	191	142	93.5	64.0	53.6
L2V320	NALL020320HM0MA	1595	1430	1135	935	800	625	472	385	230	171	112.0	76.5	63.4
L2V375	NALL020375HM0MA	1825	1630	1315	1080	925	725	549	447	272	200	131.0	89.5	74.2
L2V425	NALL020425HM0MA	1995	1800	1450	1215	1050	818	620	505	308	227	149.0	101.5	84.3
L2V470	NALL020470HM0MA	2245	2035	1645	1375	1185	928	705	573	341	251	166.0	112.5	93.2
L2V520	NALL020520HM0MA	2370	2155	1760	1490	1290	1016	774	630	376	277	183.5	124.4	103.1
L2V575	NALL020575HM0MA	2490	2290	1880	1615	1390	1110	848	692	414	306	203.0	137.5	114.0

**12V- and 6V-types: W/block; 2V-types: W/cell*

Discharge figures are also valid for UL 94-V0 version. Change "H" to "V" in the part number.

E.g.:

Standard *NALL120015**H**M0MA*

UL 94-V0 *NALL120015**V**M0MA*

1.70 V/C – Discharge in W* at 20°C														
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h
L12V15	NALL120015HM0MA	714	585	400	301	248	189	143	118	70	52.0	33.0	21.0	17.0
L12V24	NALL120024HM0MA	Data not available up to now												
L12V32	NALL120032HM0MA	1576	1284	884	677	555	410	303	245	147	110.0	72.0	47.0	39.0
L12V42	NALL120042HM0MB	2195	1795	1240	950	775	575	420	340	198	148.0	95.0	62.0	51.0
L12V55	NALL120055HM0MB	2275	1897	1332	1022	854	647	498	407	244	175.0	119.0	79.0	67.0
L12V80	NALL120080HM0MA	3040	2560	1824	1444	1207	922	703	580	345	252.0	171.0	115.0	97.0
L6V110	NALL060110HM0MA	2487	2121	1516	1184	964	716	531	435	263	198.0	127.0	82.0	68.0
L6V160	NALL060160HM0MA	3049	2673	2017	1621	1361	1032	782	633	363	258.0	175.0	117.0	98.5
L2V220	NALL020220HM0MA	1150	1025	810	670	570	442	336	271	159	117.5	77.0	52.7	44.1
L2V270	NALL020270HM0MA	1375	1230	975	805	690	537	403	331	195	144.0	94.5	64.7	54.1
L2V320	NALL020320HM0MA	1770	1565	1215	990	840	645	485	393	235	173.0	113.5	76.9	63.8
L2V375	NALL020375HM0MA	2040	1790	1410	1150	980	755	568	460	275	202.0	132.5	90.0	74.7
L2V425	NALL020425HM0MA	2220	1985	1575	1300	1100	850	643	519	311	229.0	150.5	102.3	84.7
L2V470	NALL020470HM0MA	2480	2220	1765	1455	1245	962	724	586	345	254.0	167.8	113.3	93.9
L2V520	NALL020520HM0MA	2630	2350	1890	1575	1350	1055	797	645	380	280.0	185.5	125.3	103.8
L2V575	NALL020575HM0MA	2775	2515	2035	1705	1475	1154	876	710	418	309.0	205.0	138.5	114.8

**12V- and 6V-types: W/block; 2V-types: W/cell*

1.65 V/C – Discharge in W* at 20°C														
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h
L12V15	NALL120015HM0MA	742	607	409	307	254	193	145	119	71	52.0	33.0	21.0	17.0
L12V24	NALL120024HM0MA	Data not available up to now												
L12V32	NALL120032HM0MA	1628	1328	907	692	562	416	305	247	148	111.0	72.0	47.0	39.0
L12V42	NALL120042HM0MB	2280	1860	1270	965	790	585	423	343	199	149.0	96.0	62.0	51.0
L12V55	NALL120055HM0MB	2430	1963	1369	1048	869	654	501	410	246	176.0	120.0	80.0	67.0
L12V80	NALL120080HM0MA	3335	2774	1919	1482	1226	933	709	585	349	255.0	173.0	116.0	98.0
L6V110	NALL060110HM0MA	2587	2201	1556	1204	984	725	535	437	265	199.0	128.0	83.0	69.0
L6V160	NALL060160HM0MA	3310	2876	2113	1670	1380	1042	787	638	365	260.0	176.0	118.0	99.0
L2V220	NALL020220HM0MA	1225	1090	855	698	590	453	341	275	162	118.5	77.8	53.0	44.2
L2V270	NALL020270HM0MA	1465	1300	1020	838	710	547	412	336	198	145.0	95.5	65.1	54.3
L2V320	NALL020320HM0MA	1910	1675	1290	1045	880	665	499	402	237	173.5	114.0	77.2	64.0
L2V375	NALL020375HM0MA	2200	1920	1495	1205	1015	780	581	470	277	203.0	133.5	90.3	74.9
L2V425	NALL020425HM0MA	2380	2115	1640	1335	1130	868	651	527	313	230.0	152.0	102.8	85.0
L2V470	NALL020470HM0MA	2655	2365	1835	1495	1270	982	737	595	348	255.0	168.7	113.8	94.3
L2V520	NALL020520HM0MA	2820	2515	1985	1635	1400	1080	810	654	383	281.0	186.5	125.8	104.3
L2V575	NALL020575HM0MA	2985	2685	2140	1785	1535	1186	892	720	421	310.0	206.0	139.1	115.3

**12V- and 6V-types: W/block; 2V-types: W/cell*

Discharge figures are also valid for UL 94-V0 version. Change "H" to "V" in the part number.
E.g.:
Standard *NALL120015**H**M0MA*
UL 94-V0 *NALL120015**V**M0MA*

1.60 V/C – Discharge in W* at 20°C														
Type	Part number	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	8h	10h
L12V15	NALL120015HM0MA	760	617	416	310	257	195	147	120	71	52	33.0	21.0	17.0
L12V24	NALL120024HM0MA	Data not available up to now												
L12V32	NALL120032HM0MA	1658	1354	921	700	570	422	307	248	148	111	72.0	47.0	39.0
L12V42	NALL120042HM0MB	2330	1895	1290	980	800	590	425	345	200	150	96.0	62.0	51.0
L12V55	NALL120055HM0MB	2555	2076	1408	1070	884	661	504	413	248	177	120.0	80.0	67.0
L12V80	NALL120080HM0MA	3477	2869	1967	1510	1235	941	713	589	352	257	174.0	117.0	98.0
L6V110	NALL060110HM0MA	2673	2268	1583	1220	991	731	539	439	266	200	128.0	83.0	69.0
L6V160	NALL060160HM0MA	3464	2982	2171	1700	1390	1052	791	642	367	261	176.0	118.0	99.0
L2V220	NALL020220HM0MA	1300	1145	880	715	600	460	343	278	163	119	78.2	53.2	44.3
L2V270	NALL020270HM0MA	1555	1365	1050	855	725	555	417	338	199	146	96.0	65.3	54.4
L2V320	NALL020320HM0MA	2020	1770	1350	1080	900	678	508	408	238	174	114.5	77.3	64.1
L2V375	NALL020375HM0MA	2320	2030	1540	1245	1040	790	590	477	279	204	134.0	90.5	75.0
L2V425	NALL020425HM0MA	2515	2205	1690	1370	1150	875	657	530	315	231	153.0	103.0	85.2
L2V470	NALL020470HM0MA	2760	2450	1885	1550	1305	1000	748	602	350	256	169.1	114.1	94.5
L2V520	NALL020520HM0MA	2945	2625	2055	1685	1430	1098	822	662	385	282	187.0	126.2	104.5
L2V575	NALL020575HM0MA	3130	2800	2220	1840	1565	1205	905	729	424	311	206.5	139.5	115.5

**12V- and 6V-types: W/block; 2V-types: W/cell*

Discharge figures are also valid for UL 94-V0 version. Change "H" to "V" in the part number.
E.g.:
Standard *NALL120015**H**M0MA*
UL 94-V0 *NALL120015**V**M0MA*

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