

NAL Range

NAL Range is designed for applications where the battery is required to provide reliable source or energy over relatively long discharge periods. Normally, the current is relatively low in comparison with the total stored energy and the discharges are generally infrequent. Typical uses are power backup and bulk energy storage.

Charging

The NAL type cells can be charged by all normal methods.

- Taper
- Constant Current
- Constant Voltage
- Pulse

The NAL type cells may be operated satisfactorily in any state of charge. For operating conditions other than fully charged.

Capacity

The rated capacity (C_5) of a cell is the capacity available in ampere hours (Ah) at the 5 hour discharge rate to an end voltage of 1.00 volts per cell.

Discharge Rate

The nominal discharge voltage is 1.2 volts per cell.

Constant Current Charging

Standard charge : $0.2C_5$ Amperes for 8 hours.

Fast charge : $0.4C_5$ Amperes for 2.5 hours followed by $0.2C_5$ Amperes for 2.5 hours.

Minimum charge : 2.0mA per Ah.

Constant Voltage Charging

Two levels charging

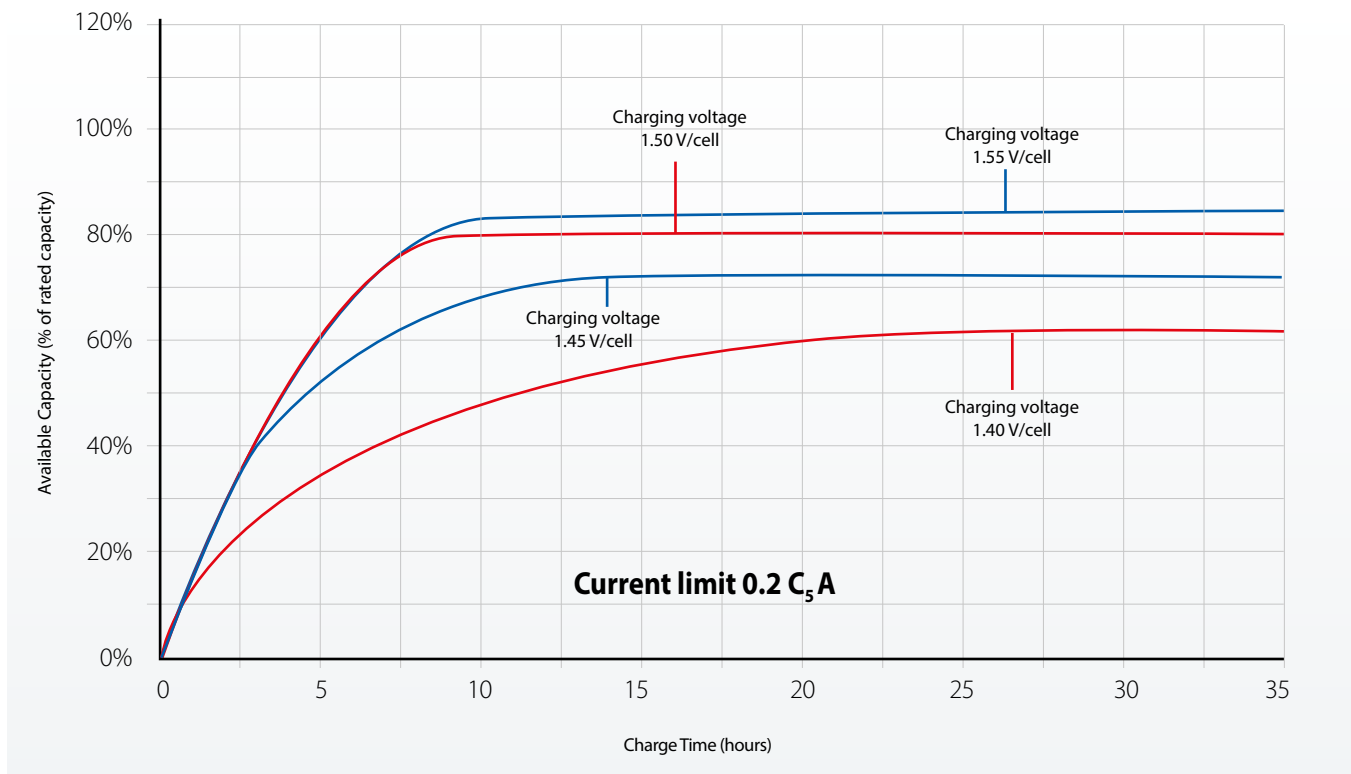
Float voltage : 1.42 V/cell.

Boost voltage : 1.47 - 1.70 V/cell.

Single level charging
1.43 - 1.50 V/cell.

Cell Data

Short Circuit : Max $10 \times C_5$ Amps



Time to reach state-of-charging voltages for fully discharge NAL range

NAL Range Cell Performance

Capacities and dimensions

International System of units

Cell type	Capacity C ₂ Ah	Overall Height*	Width per cell	Length per cell	Approx. Weight per cell	Approx. electrolyte volume between level marks	Electrolyte per cell		Internal resistance *	Cell connection bolt per pole
							Solid	Liquid		
	Ah	mm	mm	mm	Kg	cm ³	Kg	L	mOhm	
NAL 10	10	270	121	42	1.60	146	0.26	0.80	10.5	M 6
NAL 15	15	270	121	42	1.70	146	0.23	0.70	8.33	M 6
NAL 22	22	270	121	42	1.90	143	0.23	0.70	4.77	M 6
NAL 30	30	270	121	42	2.00	143	0.19	0.60	4.17	M 6
NAL 40	40	270	121	66	3.10	235	0.36	1.10	3.13	M 6
NAL 47	47	270	121	66	3.00	238	0.36	1.10	2.66	M 6
NAL 55	55	270	121	66	3.30	235	0.32	1.00	2.27	M 6
NAL 62	62	270	121	66	3.30	235	0.32	1.00	2.02	M 6
NAL 70	70	357	192	68	6.10	540	0.87	2.70	2.29	M 8
NAL 75	75	357	192	68	6.10	540	0.87	2.70	2.13	M 8
NAL 85	85	357	192	68	6.80	530	0.78	2.40	1.88	M 10
NAL 90	90	357	192	68	6.80	530	0.78	2.40	1.78	M 10
NAL 100	100	357	192	68	6.80	530	0.78	2.40	1.60	M 10
NAL 110	110	357	192	68	6.80	530	0.78	2.40	1.45	M 10
NAL 125	125	357	192	68	7.40	530	0.68	2.10	1.28	M 10
NAL 145	145	357	192	68	7.40	530	0.68	2.10	1.10	M 10
NAL 165	165	357	192	93	9.80	750	1.04	3.20	0.97	M 10
NAL 185	185	357	192	93	9.80	750	1.04	3.20	0.86	M 10
NAL 200	200	357	192	93	10.4	740	0.94	2.90	0.80	M 10
NAL 220	220	357	192	93	10.4	740	0.94	2.90	0.73	M 10
NAL 235	235	413	192	93	11.6	750	1.20	3.70	0.70	M 10
NAL 255	255	413	192	93	12.3	740	1.10	3.40	0.65	M 10
NAL 280	280	413	192	93	12.3	740	1.10	3.40	0.59	M 10
NAL 300	300	413	192	122	15.9	1000	1.56	4.80	0.55	2 x M 10
NAL 330	330	413	192	122	15.9	1000	1.56	4.80	0.50	2 x M 10
NAL 360	360	413	192	122	16.6	990	1.43	4.40	0.46	2 x M 10
NAL 375	375	413	192	122	16.6	990	1.43	4.40	0.44	2 x M 10

Capacities and dimensions

Imperial units

Cell type	Capacity C ₂ Ah	Overall Height*	Width per cell	Length per cell	Approx. Weight per cell	Approx. electrolyte volume between level marks	Electrolyte per cell		Internal resistance *	Cell connection bolt per pole
							Solid	Liquid		
	Ah	in	in	in	lbs	in ³	lbs	US Gal.	mOhm	
NAL 10	10	10.6	4.76	1.65	3.53	8.91	0.57	0.21	10.5	M 6
NAL 15	15	10.6	4.76	1.65	3.75	8.91	0.50	0.18	8.33	M 6
NAL 22	22	10.6	4.76	1.65	4.19	8.73	0.50	0.18	4.77	M 6
NAL 30	30	10.6	4.76	1.65	4.41	8.73	0.43	0.16	4.17	M 6
NAL 40	40	10.6	4.76	2.60	6.83	14.3	0.79	0.29	3.13	M 6
NAL 47	47	10.6	4.76	2.60	6.61	14.5	0.79	0.29	2.66	M 6
NAL 55	55	10.6	4.76	2.60	7.28	14.3	0.71	0.26	2.27	M 6
NAL 62	62	10.6	4.76	2.60	7.28	14.3	0.71	0.26	2.02	M 6
NAL 70	70	14.1	7.56	2.68	13.4	33.0	1.93	0.71	2.29	M 8
NAL 75	75	14.1	7.56	2.68	13.4	33.0	1.93	0.71	2.13	M 8
NAL 85	85	14.1	7.56	2.68	15.0	32.3	1.71	0.63	1.88	M 10
NAL 90	90	14.1	7.56	2.68	15.0	32.3	1.71	0.63	1.78	M 10
NAL 100	100	14.1	7.56	2.68	15.0	32.3	1.71	0.63	1.60	M 10
NAL 110	110	14.1	7.56	2.68	15.0	32.3	1.71	0.63	1.45	M 10
NAL 125	125	14.1	7.56	2.68	16.3	32.3	1.50	0.55	1.28	M 10
NAL 145	145	14.1	7.56	2.68	16.3	32.3	1.50	0.55	1.10	M 10
NAL 165	165	14.1	7.56	3.66	21.6	45.8	2.29	0.85	0.97	M 10
NAL 185	185	14.1	7.56	3.66	21.6	45.8	2.29	0.85	0.86	M 10
NAL 200	200	14.1	7.56	3.66	22.9	45.2	2.07	0.77	0.80	M 10
NAL 220	220	14.1	7.56	3.66	22.9	45.2	2.07	0.77	0.73	M 10
NAL 235	235	16.3	7.56	3.66	25.6	45.8	2.64	0.98	0.70	M 10
NAL 255	255	16.3	7.56	3.66	27.1	45.2	2.43	0.90	0.65	M 10
NAL 280	280	16.3	7.56	3.66	27.1	45.2	2.43	0.90	0.59	M 10
NAL 300	300	16.3	7.56	4.80	35.1	61.0	3.43	1.27	0.55	2 x M 10
NAL 330	330	16.3	7.56	4.80	35.1	61.0	3.43	1.27	0.50	2 x M 10
NAL 360	360	16.3	7.56	4.80	36.6	60.4	3.14	1.16	0.46	2 x M 10
NAL 375	375	16.3	7.56	4.80	36.6	60.4	3.14	1.16	0.44	2 x M 10

* Height includes the IP2X terminal cover.

NAL Range Cell Performance

At 20°C ± 5°C (+68°F ± 9°F)

Available amperes for fully charged cells after constant current charging to IEC 623

Final voltage : 1.00V/cell

Cell type	Capacity (C ₀ Ah)	Hours							Minutes							Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1	
NAL 10	10	1.03	1.27	2.00	3.23	4.37	5.44	6.96	8.50	9.53	10.2	11.2	13.9	16.5	18.3	20.7	21.2	
NAL 15	15	1.54	1.91	3.00	4.80	6.45	8.00	10.6	14.2	16.0	17.4	18.7	23.7	26.8	29.7	38.3	43.1	
NAL 22	22	2.26	2.81	4.40	7.04	9.50	11.7	15.5	20.8	23.5	25.5	27.4	34.7	39.3	43.6	56.1	63.3	
NAL 30	30	3.08	3.83	6.00	9.60	12.9	16.0	21.2	28.4	32.1	34.8	37.4	47.3	53.6	59.5	76.5	86.3	
NAL 40	40	4.10	5.10	8.00	12.8	17.2	21.3	28.3	37.8	42.8	46.4	49.9	63.1	71.4	79.3	102	115	
NAL 47	47	4.82	5.99	9.40	15.0	20.2	25.1	33.2	44.5	50.3	54.5	58.6	74.1	83.9	93.2	120	135	
NAL 55	55	5.64	7.01	11.0	17.6	23.6	29.3	38.9	52.0	58.8	63.8	68.6	86.7	98.2	109	140	158	
NAL 62	62	6.36	7.91	12.4	19.8	26.6	33.0	43.8	58.7	66.3	71.9	77.4	97.8	111	123	158	178	
NAL 70	70	7.07	8.84	14.0	22.4	30.4	36.9	47.5	60.7	68.6	72.8	76.9	92.4	105	113	144	160	
NAL 75	75	7.58	9.47	15.0	24.0	32.6	39.6	50.9	65.1	73.5	78.0	82.3	99.0	113	121	154	171	
NAL 85	85	8.59	10.7	17.0	27.2	36.9	44.8	57.7	73.8	83.2	88.4	93.3	112	128	137	175	194	
NAL 90	90	9.10	11.4	18.0	28.8	39.1	47.5	61.1	78.1	88.1	93.6	98.8	119	136	145	185	205	
NAL 100	100	10.1	12.6	20.0	32.0	43.4	52.8	67.9	86.8	97.9	104	110	132	151	161	205	228	
NAL 110	110	11.1	13.9	22.0	35.2	47.8	58.0	74.7	95.5	108	114	121	145	166	177	226	251	
NAL 125	125	12.6	15.8	25.0	40.0	54.3	66.0	84.9	108	122	130	137	165	188	202	257	285	
NAL 145	145	14.7	18.3	29.0	46.4	63.0	76.5	98.5	126	142	151	159	191	218	234	298	331	
NAL 165	165	16.7	20.8	33.0	52.8	71.7	87.1	112	143	162	172	181	218	249	266	339	376	
NAL 185	185	18.7	23.4	37.0	59.2	80.4	97.6	126	161	181	192	203	244	279	298	380	422	
NAL 200	200	20.2	25.3	40.0	64.0	86.9	106	136	174	196	208	220	264	301	323	411	456	
NAL 220	220	22.2	27.8	44.0	70.4	95.6	116	149	191	215	229	242	290	331	355	452	502	
NAL 235	235	24.2	29.9	47.0	75.2	100	121	155	200	224	240	258	296	329	353	423	455	
NAL 255	255	26.3	32.5	51.0	81.6	109	131	168	217	243	261	280	322	357	383	459	493	
NAL 280	280	28.9	35.7	56.0	89.6	120	144	184	238	267	286	308	353	392	420	504	542	
NAL 300	300	30.9	38.2	60.0	96.0	128	154	198	255	286	307	330	378	420	450	540	580	
NAL 330	330	34.0	42.0	66.0	106	141	170	217	280	314	338	363	416	462	495	594	638	
NAL 360	360	37.1	45.9	72.0	115	154	185	237	306	343	368	396	454	504	540	648	697	
NAL 375	375	38.6	47.8	75.0	120	160	193	247	319	357	384	412	473	525	563	675	726	

At 20°C ± 5°C (+68°F ± 9°F)

Available amperes for fully charged cells after constant current charging to IEC 623

Final voltage : 1.05V/cell

Cell type	Capacity (C ₀ Ah)	Hours							Minutes							Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1	
NAL 10	10	1.03	1.27	1.99	2.89	3.99	4.79	5.86	7.52	8.44	9.09	10.0	11.1	13.7	14.8	17.1	17.7	
NAL 15	15	1.53	1.89	2.94	4.65	5.78	6.87	8.98	12.1	14.1	15.2	16.8	17.1	21.6	24.3	31.7	35.6	
NAL 22	22	2.24	2.78	4.31	6.82	8.48	10.1	13.2	17.7	20.7	22.3	24.6	25.0	31.7	35.6	46.4	52.3	
NAL 30	30	3.06	3.79	5.88	9.30	11.6	13.7	18.0	24.1	28.2	30.3	33.6	34.1	43.2	48.5	63.3	71.3	
NAL 40	40	4.08	5.05	7.84	12.4	15.4	18.3	23.9	32.2	37.6	40.5	44.8	45.5	57.6	64.7	84.4	95.0	
NAL 47	47	4.79	5.93	9.21	14.6	18.1	21.5	28.1	37.8	44.1	47.5	52.6	53.5	67.7	76.0	99.2	112	
NAL 55	55	5.61	6.94	10.8	17.1	21.2	25.2	32.9	44.2	51.7	55.6	61.6	62.6	79.2	89.0	116	131	
NAL 62	62	6.32	7.83	12.2	19.2	23.9	28.4	37.1	49.9	58.2	62.7	69.4	70.5	89.3	100	131	147	
NAL 70	70	7.00	8.75	13.7	21.9	26.9	31.6	39.2	51.4	58.4	62.4	67.7	73.0	84.7	93.3	119	131	
NAL 75	75	7.50	9.38	14.7	23.5	28.8	33.9	42.0	55.1	62.6	66.9	72.5	78.2	90.7	100	127	140	
NAL 85	85	8.50	10.6	16.7	26.6	32.6	38.4	47.5	62.4	71.0	75.8	82.2	88.6	103	113	144	159	
NAL 90	90	9.00	11.3	17.6	28.2	34.6	40.6	50.3	66.1	75.1	80.2	87.0	93.8	109	120	152	168	
NAL 100	100	10.0	12.5	19.6	31.3	38.4	45.1	55.9	73.4	83.48	89.2	96.7	104	121	133	169	187	
NAL 110	110	11.0	13.8	21.6	34.5	42.2	49.7	61.5	80.8	91.83	98.1	106	115	133	147	186	205	
NAL 125	125	12.5	15.6	24.5	39.2	48.0	56.4	69.9	91.8	104	111	121	130	151	167	212	233	
NAL 145	145	14.5	18.1	28.4	45.4	55.7	65.4	81.1	106	121	129	140	151	175	193	246	271	
NAL 165	165	16.5	20.6	32.3	51.7	63.4	74.5	92.3	121	138	147	160	172	200	220	279	308	
NAL 185	185	18.5	23.1	36.3	58.0	71.0	83.5	103	136	154	165	179	193	224	247	313	345	
NAL 200	200	20.0	25.0	39.2	62.7	76.8	90.3	112	147	167	178	193	209	242	267	339	373	
NAL 220	220	22.0	27.5	43.1	68.9	84.5	99.3	123	162	184	196	213	229	266	293	373	411	
NAL 235	235	24.0	29.8	46.5	72.9	90.9	104	129	169	187	194	215	245	265	289	347	377	
NAL 255	255	26.1	32.4	50.4	79.1	98.7	113	141	183	202	210	233	266	287	314	377	409	
NAL 280	280	28.6	35.5	55.4	86.8	108	124	154	201	222	231	256	292	315	345	414	449	
NAL 300	300	30.7	38.1	59.3	93.0	116	132	165	216	238	247	274	313	338	369	443	481	
NAL 330	330	33.7	41.9	65.3	102	128	146	182	237	262	272	302	345	372	406	488	529	
NAL 360	360	36.8	45.7	71.2	112	139	159	198	259	286	297	329	376	405	443	532	578	
NAL 375	375	38.3	47.6	74.2	116	145	166	207	269	298	309	343	392	422	461	554	602	

NAL Range Cell Performance

At 20°C ± 5°C (+68°F ± 9°F)

Available amperes for fully charged cells after constant current charging to IEC 623

Final voltage : 1.10V/cell

Cell type	Capacity (C ₀ Ah)	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
NAL 10	10	1.00	1.20	1.75	2.80	3.63	4.24	4.79	6.26	7.03	7.54	8.19	9.49	11.1	12.1	13.5	13.9
NAL 15	15	1.50	1.84	2.82	4.01	5.11	6.09	7.19	9.6	10.7	11.4	12.8	15.1	17.4	20.0	26.2	29.7
NAL 22	22	2.20	2.70	4.14	5.89	7.49	8.94	10.5	14.2	15.7	16.8	18.7	22.1	25.6	29.4	38.4	43.6
NAL 30	30	3.00	3.68	5.65	8.03	10.2	12.2	14.4	19.3	21.5	22.9	25.5	30.1	34.9	40.1	52.4	59.5
NAL 40	40	4.00	4.90	7.53	10.7	13.6	16.2	19.2	25.7	28.6	30.5	34.0	40.2	46.5	53.4	69.8	79.3
NAL 47	47	4.70	5.76	8.85	12.6	16.0	19.1	22.5	30.2	33.6	35.8	40.0	47.2	54.6	62.7	82.0	93.2
NAL 55	55	5.50	6.74	10.4	14.7	18.7	22.3	26.4	35.4	39.4	41.9	46.8	55.3	63.9	73.4	96.0	109
NAL 62	62	6.20	7.60	11.7	16.6	21.1	25.2	29.7	39.9	44.4	47.3	52.8	62.3	72.1	82.8	108	123
NAL 70	70	6.93	8.49	13.1	18.7	23.6	27.7	32.4	41.5	45.7	46.4	51.1	60.3	68.5	76.6	96	107
NAL 75	75	7.43	9.10	14.0	20.0	25.3	29.7	34.7	44.4	49.0	49.7	54.7	64.6	73.4	82.1	103	115
NAL 85	85	8.42	10.3	15.9	22.7	28.6	33.6	39.3	50.4	55.5	56.3	62.0	73.2	83.2	93.0	117	130
NAL 90	90	8.92	10.9	16.8	24.0	30.3	35.6	41.6	53.3	58.8	59.6	65.7	77.5	88.1	98.5	124	138
NAL 100	100	9.91	12.1	18.7	26.7	33.7	39.5	46.3	59.2	65.3	66.3	73.0	86.1	97.9	109	137	153
NAL 110	110	10.9	13.3	20.5	29.3	37.0	43.5	50.9	65.2	71.8	72.9	80.3	94.7	108	120	151	169
NAL 125	125	12.4	15.2	23.3	33.3	42.1	49.4	57.8	74.1	81.6	82.8	91.2	108	122	137	172	192
NAL 145	145	14.4	17.6	27.1	38.7	48.8	57.3	67.1	85.9	94.7	96.1	106	125	142	159	199	222
NAL 165	165	16.3	20.0	30.8	44.0	55.6	65.2	76.3	97.8	108	109	120	142	161	181	227	253
NAL 185	185	18.3	22.4	34.5	49.3	62.3	73.1	85.6	110	121	123	135	159	181	203	254	284
NAL 200	200	19.8	24.3	37.3	53.3	67.4	79.1	92.5	118	131	133	146	172	196	219	275	307
NAL 220	220	21.8	26.7	41.1	58.7	74.1	87.0	102	130	144	146	161	189	215	241	302	337
NAL 235	235	23.5	28.8	44.2	61.3	77.0	88.7	105	131	142	156	171	180	216	235	286	314
NAL 255	255	25.5	31.3	48.0	66.5	83.5	96.3	114	143	154	169	186	195	234	255	310	340
NAL 280	280	28.0	34.3	52.7	73.0	91.7	106	125	157	169	186	204	215	257	280	341	374
NAL 300	300	30.0	36.8	56.5	78.3	98.3	113	134	168	181	199	219	230	275	300	365	400
NAL 330	330	33.0	40.5	62.1	86.1	108	125	147	185	199	219	241	253	303	330	402	440
NAL 360	360	36.0	44.1	67.8	93.9	118	136	160	201	218	239	263	276	330	360	438	481
NAL 375	375	37.5	46.0	70.6	97.8	123	142	167	210	227	249	274	287	344	375	457	501

At 20°C ± 5°C (+68°F ± 9°F)

Available amperes for fully charged cells after constant current charging to IEC 623

Final voltage : 1.14V/cell

Cell type	Capacity (C ₀ Ah)	Hours							Minutes						Seconds		
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
NAL 10	10	0.99	1.15	1.53	2.54	3.16	3.49	3.94	5.05	5.69	6.00	6.68	8.03	9.01	9.61	11.3	11.6
NAL 15	15	1.47	1.73	2.48	3.53	4.38	4.92	5.91	7.58	8.53	9.18	9.66	11.0	14.3	16.5	21.6	24.8
NAL 22	22	2.16	2.54	3.64	5.17	6.42	7.21	8.67	11.1	12.5	13.5	14.2	16.2	20.9	24.2	31.7	36.4
NAL 30	30	2.94	3.46	4.97	7.05	8.76	9.83	11.8	15.2	17.1	18.4	19.3	22.1	28.5	33.0	43.3	49.6
NAL 40	40	3.92	4.61	6.62	9.40	11.7	13.1	15.8	20.2	22.8	24.5	25.8	29.4	38.0	44.0	57.7	66.1
NAL 47	47	4.61	5.42	7.78	11.0	13.7	15.4	18.5	23.7	26.7	28.8	30.3	34.6	44.7	51.7	67.8	77.7
NAL 55	55	5.39	6.34	9.10	12.9	16.1	18.0	21.7	27.8	31.3	33.7	35.4	40.5	52.3	60.5	79.3	90.9
NAL 62	62	6.08	7.15	10.3	14.6	18.1	20.3	24.4	31.3	35.3	37.9	39.9	45.6	58.9	68.2	89.4	102
NAL 70	70	6.72	7.90	11.5	16.1	19.8	22.1	25.4	32.0	36.5	36.6	41.9	45.1	56.0	62.0	79.4	89.6
NAL 75	75	7.20	8.46	12.3	17.2	21.3	23.7	27.2	34.3	39.1	39.3	44.9	48.3	60.0	66.4	85.1	96.0
NAL 85	85	8.16	9.59	13.9	19.5	24.1	26.9	30.8	38.9	44.3	44.5	50.8	54.8	68.0	75.3	96.4	109
NAL 90	90	8.64	10.2	14.8	20.6	25.5	28.5	32.6	41.2	46.9	47.1	53.8	58.0	72.0	79.7	102	115
NAL 100	100	9.60	11.3	16.4	22.9	28.4	31.6	36.3	45.8	52.2	52.3	59.8	64.4	80.0	88.5	113	128
NAL 110	110	10.6	12.4	18.0	25.2	31.2	34.8	39.9	50.4	57.4	57.6	65.8	70.9	88.0	97.4	125	141
NAL 125	125	12.0	14.1	20.5	28.7	35.4	39.6	45.3	57.2	65.2	65.4	74.8	80.5	100	111	142	160
NAL 145	145	13.9	16.4	23.8	33.3	41.1	45.9	52.6	66.4	75.6	75.9	86.7	93.4	116	128	165	186
NAL 165	165	15.8	18.6	27.1	37.8	46.8	52.2	59.9	75.5	86.1	86.4	98.7	106	132	146	187	211
NAL 185	185	17.8	20.9	30.3	42.4	52.5	58.5	67.1	84.7	96.5	96.8	111	119	148	164	210	237
NAL 200	200	19.2	22.6	32.8	45.9	56.7	63.3	72.5	91.6	104	105	120	129	160	177	227	256
NAL 220	220	21.1	24.8	36.1	50.5	62.4	69.6	79.8	101	115	115	132	142	176	195	250	282
NAL 235	235	23.0	27.1	38.9	53.1	63.7	70.6	81.4	104	111	116	130	151	176	192	239	265
NAL 255	255	24.9	29.4	42.2	57.7	69.2	76.6	88.3	113	121	125	141	164	191	208	259	287
NAL 280	280	27.4	32.3	46.4	63.3	75.9	84.1	97.0	124	133	138	155	180	209	229	285	315
NAL 300	300	29.3	34.6	49.7	67.8	81.4	90.1	104	133	142	148	166	193	224	245	305	338
NAL 330	330	32.3	38.0	54.7	74.6	89.5	99.1	114	146	156	162	183	212	247	270	336	372
NAL 360	360	35.2	41.5	59.6	81.4	97.6	108	125	159	171	177	199	232	269	294	366	405
NAL 375	375	36.7	43.2	62.1	84.8	102	113	130	166	178	184	208	241	280	307	382	422



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