



TECHNOLOGY IMPORTED FROM U.S.A

CALCIUM PLATE TECHNOLOGY



Maintenance Free
High Performance



PRODUCT DESCRIPTION

Altima Maintenance free battery incorporates several modifications over a conventional battery, the most significant feature is that it is sealed (except for a very small vent-hole) and requires no service attention other than to be kept clean. The antimony has been eliminated from the plate grids, which could remove four major causes of early battery failure such as overcharge, water usage, thermal-runaway and self discharge. Thermal runaway is a condition, which occurs in a conventional battery when the battery operating temperature is high or when faulty regulation of the charging system is combined with a rising electrolyte temperature. Overcharge is the major cause of gassing in a conventional battery. In a Freedom battery lead calcium (Pb Ca) is used for the grid material. Therefore with the inherent assistance of the higher emf given by this construction as it approaches full-charge, it is possible to reduce loss

FEATURES & BENEFITS

- Both stud and post terminal offerings available
- Strong internal fusion weld to help with battery life
- Altima negative paste helps resist flaking to maximize overall performance and life
- Calcium Alloy maximizes cycle life and performance, and minimizes water consumption
- Durable envelope separator that maximizes acid circulation and resist punctures, helping with battery life
- Permanently sealed cover protects against leaks and provides maintenance free performance without having to add water

MAINTENANCE FREE BATTERY

Battery Type	Capacity		CCA (A) -18°C	CA (A) 0°C	RC Min 25°C	Dimensions (mm) L x W x H	Battery Wt.(±.5%)		Charging Current (Amp)
	Nom. C20 (Ah)	Req. C5 (Ah)					Dry (Kg.)	Wet (Kg.)	
NS40/L	32	24	200	250	33	197 x 129 x 227	6.16	9.26	3.2
NS40ZR/L (36B20R/L)	35	28	225	250	42	197 x 129 x 227	6.22	9.32	3.5
N40/L (32C24R/L)	40	32	250	312	45	238 x 135 x 232	7.3	11.5	4
NS50/L (48D26R/L)	50	40	320	400	72	260 x 173 x 225	9.2	14.9	5
NS50Z/L (55D26R/L)	60	48	356	445	82	260 x 173 x 225	10	15.61	6
NS70 (65D26R/L)	65	52	380	475	89	260 x 173 x 225	10.8	16.34	6.5
NX110-5 (80D26R/L)	65	55	380	475	90	260 x 173 x 225	10.9	16.44	6.5
N70 (65D31R/L)	70	56	410	512	110	306 x 173 x 225	12.2	18.7	7
N70Z (75D31R/L)	75	60	470	588	116	306 x 173 x 225	12.86	19.41	7.5
NX120-7 (95D31R/L)	80	64	530	675	125	306 x 173 x 225	14	20.2	8
NS100/L	90	72	550	688	135	306 x 173 x 225	14.45	20.85	9
NI100 (95E41R/L)	100	80	560	700	150	410 x 176 x 234	16.2	25.75	10
NI20 (115F51R/L)	120	96	740	925	220	512 x 182 x 257	21.1	33.5	12
NI35/L (135AH)	135	108	840	1050	225	512 x 215 x 257	23.5	37.7	13.5
NI50 (145G51R/L)	150	120	920	1150	250	512 x 215 x 257	25	39.4	15
N200 (190H52R/L)	200	160	1100	1375	390	521 x 278 x 270	32.42	51.66	20
DIN170 (67005)	170	136	1040	1300	300	513 x 217 x 210	28.64	42.19	17

Legend: CA - Cranking Amphere, CCA - Cold Cranking Amphere, RC- Reserve Capacity, L - Length, W - Width, H -Total Height & ST - Side Terminal

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(An ISO 9001:2008 Certified Company)
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