

1

MAINTENANCE FREE BATTERY



ITEM		V	CAPACITY C20(AH)	R.C MIN.	CCA A	DIMENSION (MM)	PLATE PER CELL	WEIGHT KG	TERMINAL LAYOUT	HOLD DOWN
OLD	NEW									
NS40-SMF	36B20R-SMF	12	32	48	211	196x130x216	8	8.8	B-1	
NS40Z-SMF	38B20R-SMF	12	36	54	237	196x130x216	9	9.2	B-1	



ITEM		V	CAPACITY C20(AH)	R.C MIN.	CCA A	DIMENSION (MM)	PLATE PER CELL	WEIGHT KG	TERMINAL LAYOUT	HOLD DOWN
OLD	NEW									
	55D23R-SMF	12	60	90	392	230X170X220	13	13.8	A-1	B9
	75D23L-SMF	12	65	98	425	230X170X220	14	14.5	A-0	B9



ITEM		V	CAPACITY C20(AH)	R.C MIN.	CCA A	DIMENSION (MM)	PLATE PER CELL	WEIGHT KG	TERMINAL LAYOUT	HOLD DOWN
OLD	NEW									
N40-SMF	32C24R-SMF	12	40	60	264	238X130X215	10	10.5	A-1	
NS60L-SMF	46B24L-SMF	12	45	68	297	238X130X215	10	11	A-0	
NX100-6-SMF	55B24R-SMF	12	50	75	330	238X130X215	11	11.8	A-1	



ITEM		V	CAPACITY C20(AH)	R.C MIN.	CCA A	DIMENSION (MM)	PLATE PER CELL	WEIGHT KG	TERMINAL LAYOUT	HOLD DOWN
OLD	NEW									
N50-SMF	48D26R-SMF	12	50	75	332	260X171X220	11	13.8	A-1	B9
N50ZL-SMF	55D26L-SMF	12	60	90	392	260X171X220	13	14.7	A-0	B9
NS70-SMF	75D26R-SMF	12	65	98	425	260X171X220	14	15.3	A-1	B9
NX110-5L-SMF	80D26L-SMF	12	70	112	455	260X171X220	13	15.8	A-0	B9



ITEM		V	CAPACITY C20(AH)	R.C MIN.	CCA A	DIMENSION (MM)	PLATE PER CELL	WEIGHT KG	TERMINAL LAYOUT	HOLD DOWN
OLD	NEW									
N70-SMF	65D31R-SMF	12	70	112	455	300X171X220	13	16.1	A-1	B9
N70ZL-SMF	75D31L-SMF	12	75	120	487	300X171X220	14	17	A-0	B9
NX120-7-SMF	95D31R-SMF	12	80	128	520	300X171X220	15	17.9	A-1	B9
NS100L-SMF	30H90L-SMF	12	90	144	585	300X171X220	16	19	A-0	B9



ITEM		V	CAPACITY C20(AH)	R.C MIN.	CCA A	DIMENSION (MM)	PLATE PER CELL	WEIGHT KG	TERMINAL LAYOUT	HOLD DOWN
OLD	NEW									
	58500-SMF	12	60	90	369	234X171X185	12	12	A-1	B9



ITEM		V	CAPACITY C20(AH)	R.C MIN.	CCA A	DIMENSION (MM)	PLATE PER CELL	WEIGHT KG	TERMINAL LAYOUT	HOLD DOWN
OLD	NEW									
N90-MF		12	90	144	585	340X171X240	16	19.5	A-1	
	30H100MF	12	100	168	682	340X171X240	18	20	A-1	



ITEM		V	CAPACITY C20(AH)	R.C MIN.	CCA A	DIMENSION (MM)	PLATE PER CELL	WEIGHT KG	TERMINAL LAYOUT	HOLD DOWN
OLD	NEW									
N100-SMF	95E41R-SMF	12	100	160	650	401X171X230	18	22	A-1	
N120AL-SMF	115E41L-SMF	12	110	176	715	401X171X230	19	22.7	A-0	

3

MAINTENANCE FREE BATTERY



ITEM		V	CAPACITY	R.C	CCA	DIMENSION	PLATE	WEIGHT	TERMINAL	HOLD
OLD	NEW		C20(AH)	MIN.	A	(MM)	PER CELL	KG	LAYOUT	DOWN
DIN44-SMF	54459-SMF	12	44	65	290	210X175X190	10	10.5	A-0	B3
DIN44L-SMF	54466-SMF	12	44	65	290	210X175X190	10	10.5	A-1	B3



ITEM		V	CAPACITY	R.C	CCA	DIMENSION	PLATE	WEIGHT	TERMINAL	HOLD
OLD	NEW		C20(AH)	MIN.	A	(MM)	PER CELL	KG	LAYOUT	DOWN
DIN66-SMF	56638-SMF	12	66	99	435	270X173X190	12	14.9	A-0	B3
DIN66L-SMF	56633-SMF	12	66	99	435	270X173X190	12	14.9	A-1	B3



ITEM		V	CAPACITY	R.C	CCA	DIMENSION	PLATE	WEIGHT	TERMINAL	HOLD
OLD	NEW		C20(AH)	MIN.	A	(MM)	PER CELL	KG	LAYOUT	DOWN
DIN55-SMF	55559-SMF	12	55	82	363	238X175X190	10	11.5	A-0	B3
DIN55L-SMF	55565-SMF	12	55	82	363	238X175X190	10	11.5	A-1	B3



ITEM		V	CAPACITY	R.C	CCA	DIMENSION	PLATE	WEIGHT	TERMINAL	HOLD
OLD	NEW		C20(AH)	MIN.	A	(MM)	PER CELL	KG	LAYOUT	DOWN
DIN88-SMF	58827-SMF	12	88	140	580	342X173X195	16	19	A-0	B3
DIN100-SMF	60038-SMF	12	100	165	650	342X173X195	18	19.5	A-0	B3



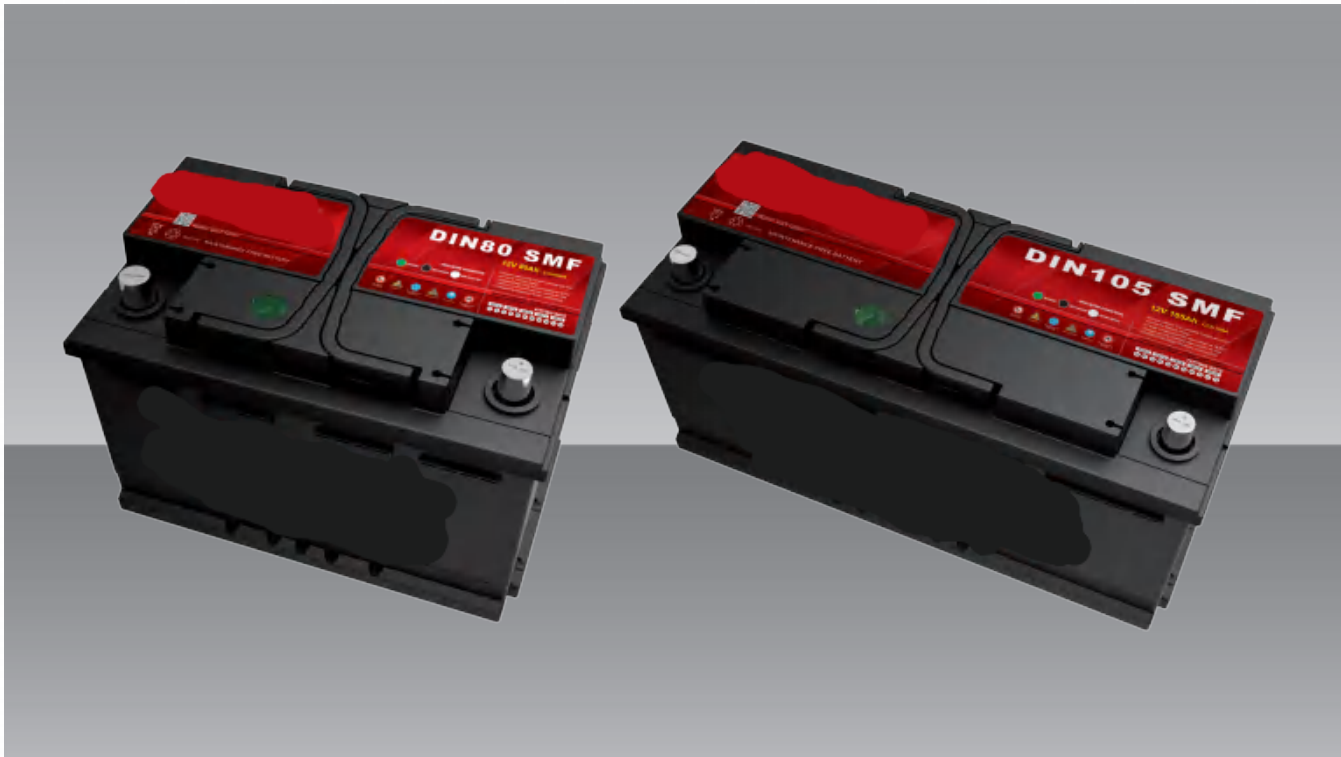
ITEM		V	CAPACITY C20(AH)	R.C MIN.	CCA A	DIMENSION (MM)	PLATE PER CELL	WEIGHT KG	TERMINAL LAYOUT	HOLD DOWN
OLD	NEW									
N120-SMF	115F51-SMF	12	120	192	720	505X181X220	21	27.8	A-3	
NS150L-MF	145F51L-SMF	12	135	216	810	505X181X220	23	28.7	A-4	



ITEM		V	CAPACITY C20(AH)	R.C MIN.	CCA A	DIMENSION (MM)	PLATE PER CELL	WEIGHT KG	TERMINAL LAYOUT	HOLD DOWN
OLD	NEW									
N200-SMF	195H52R-SMF	12	200	320	1150	505X260X235	31	45.2	A-3	
N220L-SMF	245H52L-SMF	12	220	352	1200	505X260X235	33	47.5	A-4	



ITEM		V	CAPACITY C20(AH)	R.C MIN.	CCA A	DIMENSION (MM)	PLATE PER CELL	WEIGHT KG	TERMINAL LAYOUT	HOLD DOWN
OLD	NEW									
N150-SMF	145G51-SMF	12	150	240	880	505X220X220	27	34.6	A-3	
NS200L-SMF	165G51L-SMF	12	165	240	950	505X220X220	28	35.1	A-4	
N170-SMF		12	170	240	990	505X220X220	29	35.5	A-3	
N180L-SMF	195G51L-SMF	12	180	240	1060	505X220X220	31	36.5	A-4	



ITEM		V	CAPACITY C20(AH)	R.C MIN.	CCA A	DIMENSION (MM)	PLATE PER CELL	WEIGHT KG	TERMINAL LAYOUT	HOLD DOWN
OLD	NEW									
DIN77-SMF	58043-SMF	12	77	100	650	315X175X190			A-0	B3
DIN105-SMF	60525-SMF	12	105	120	700	394X175X190			A-0	B3

ITEM	CAPACITY (C20)	DIMENSION MM	CCA (A)	R.C. (MIN.)	TERMINAL	LAYOUT	HOLD DOWN
JIS BATTERY							
NS40 SMF	12V35AH	196X130X220	295	58	B	1	
NS40Z SMF	12V36AH	196X130X220	295	58	B	1	
NS40ZL SMF	12V36AH	196X130X220	295	58	B	0	
38B20R SMF	12V36AH	196X130X220	295	58	B	1	
42B19R SMF	12V40AH	196X130X220	295	58	B	1	
N40 SMF	12V40AH	238X130X220	305	64	A	1	
N40L SMF	12V40AH	238X130X220	305	64	A	0	
NS60 SMF	12V45AH	238X130X220	345	72	A	1	
NS60L SMF	12V45AH	238X130X220	345	72	A	0	
NS60LS SMF	12V45AH	238X130X220	345	72	B	0	
46B24RS SMF	12V45AH	238X130X220	345	72	B	1	
46B24LS SMF	12V45AH	238X130X220	345	72	B	0	
51R	12V45AH	238X130X220	345	72	A	1	
NX100-6 SMF	12V50AH	238X130X220	405	80	A	1	
50B24LS SMF	12V50AH	238X130X220	405	80	B	0	
NS50 SMF	12V50AH	230X171X220	380	80	A	1	B9
55D23 SMF	12V60AH	230X171X220	430	95	A	1	B9
55D23L SMF	12V60AH	230X171X220	430	95	A	0	B9
22R	12V60AH	230X171X220	430	95	A	1	B9
75D23 SMF	12V65AH	230X171X220	455	101	A	1	B9
35	12V70AH	230X171X220	500	101	A	0	B9
N50 SMF	12V50AH	260X171X220	395	80	A	1	B9
N50L SMF	12V50AH	260X171X220	395	80	A	0	B9
48D26R SMF	12V50AH	260X171X220	395	80	A	1	B9
48D26L SMF	12V50AH	260X171X220	395	80	A	0	B9
55D26R SMF	12V60AH	260X171X220	435	95	A	1	B9
55D26L SMF	12V60AH	260X171X220	435	95	A	0	B9
N50Z SMF	12V60AH	260X171X220	435	95	A	1	B9
N60 SMF	12V60AH	260X171X220	435	95	A	1	B9
N60L SMF	12V60AH	260X171X220	435	95	A	0	B9
24R	12V60AH	260X171X220	435	95	A	1	B9
24	12V60AH	260X171X220	435	95	A	0	B9
NS70 SMF	12V65AH	260X171X220	470	101	A	1	B9
NS70L SMF	12V65AH	260X171X220	470	101	A	0	B9
75D26R SMF	12V70AH	260X171X220	470	101	A	1	B9
75D26L SMF	12V70AH	260X171X220	470	101	A	0	B9
80D26R SMF	12V70AH	260X171X220	470	101	A	1	B9
80D26L SMF	12V70AH	260X171X220	470	101	A	0	B9
34R	12V70AH	260X171X220	475	101	A	1	B9
34	12V70AH	260X171X220	475	101	A	0	B9
NX110-5 SMF	12V70AH	260X171X220	475	101	A	1	B9
NX110-5L SMF	12V70AH	260X171X220	475	101	A	0	B9
36	12V75AH	260X171X220	520	101	A	0	B9
36R	12V75AH	260X171X220	520	101	A	1	B9
N70 SMF	12V70AH	300X171X220	485	107	A	1	B9
N70L SMF	12V70AH	300X171X220	485	107	A	0	B9
65D31R SMF	12V70AH	300X171X220	485	107	A	1	B9
65D31L SMF	12V70AH	300X171X220	485	107	A	0	B9
N70Z SMF	12V75AH	300X171X220	530	123	A	1	B9
N70ZL SMF	12V75AH	300X171X220	530	123	A	0	B9
95D31R SMF	12V80AH	300X171X220	560	130	A	1	B9
95D31L SMF	12V80AH	300X171X220	560	130	A	0	B9
NX120-7R SMF	12V80AH	300X171X220	560	130	A	1	B9
NX120-7L SMF	12V80AH	300X171X220	560	130	A	0	B9
27R	12V80AH	300X171X220	560	130	A	1	B9
27	12V80AH	300X171X220	560	130	A	0	B9
N90 SMF	12V90AH	300X171X220	635	153	A	1	B9
N90L SMF	12V90AH	300X171X220	635	153	A	0	B9
NS100 SMF	12V95AH	300X171X220	635	153	A	1	B9
105D31R SMF	12V105AH	300X171X220	680	173	A	1	B9

105D31L SMF	12V105AH	300X171X220	680	173	A	0	B9
105D31R SMF	12V110AH	300X171X220	680	173	A	1	B9
105D31L SMF	12V110AH	300X171X220	680	173	A	0	B9
30H90 MF	12V90AH	340X173X230	635	153	A	1	
30H100 MF	12V100AH	340X173X230	685	173	A	1	
30H100S MF	12V100AH	340X173X230	685	173	A	1	
30H105 MF	12V105AH	340X173X230	685	173	A	1	
30H115 MF	12V115AH	340X173X230	700	183	A	1	
N100 SMF	12V100AH	405X173X230	585	165	A	1	
N100L SMF	12V100AH	405X173X230	585	165	A	0	
95E41R SMF	12V100AH	405X173X230	585	165	A	1	
N105 SMF	12V105AH	405X173X230	603	173	A	1	
NS120 SMF	12V110AH	405X173X230	670	183	A	1	
DIN BATTERY							
DIN40 SMF	12V40AH	210X175X190	330	72	A	0	B3
DIN44 SMF	12V44AH	210X175X190	335	72	A	0	B3
26M SMF	12V50AH	210X175X190	400	72	A	0	B3
DIN45 SMF	12V45AH	240X175X190	350	72	A	0	B3
55559 SMF	12V55AH	240X175X190	400	87	A	0	B3
DIN55 SMF	12V55AH	240X175X190	400	87	A	0	B3
DIN60 SMF	12V60AH	240X175X190	430	95	A	0	B3
42	12V60AH	240X175X190	430	95	A	0	B3
DIN62 SMF	12V62AH	240X175X190	430	95	A	0	B3
56219 SMF	12V62AH	240X175X190	430	95	A	0	B3
58500 SMF	12V60AH	234X171X185	425	95	A	0	B9
75	12V60AH	234X171X185	425	95	A	0	B9
48	12V60AH	270X175X190	470	102	A	0	B3
DIN66 SMF	12V66AH	270X175X190	470	102	A	0	B3
56618 SMF	12V66AH	270X175X190	470	102	A	0	B3
DIN68 SMF	12V68AH	270X175X190	470	102	A	0	B3
DIN70 SMF	12V70AH	270X175X190	515	107	A	0	B3
DIN72 SMF	12V72AH	270X175X190	515	107	A	0	B3
57220 SMF	12V72AH	270X175X190	515	107	A	0	B3
78-72	12V72AH	270X175X190	515	107	A	0	B3
DIN74-SMF	12V74AH	270X175X190	530	123	A	0	B3
DIN75-SMF	12V75AH	270X175X190	530	123	A	0	B3
57540SMF	12V75AH	270X175X190	530	123	A	0	B3
DIN80-SMF	12V80AH	270X175X190	595	123	A	0	B3
65	12V75AH	310X175X190	545	123	A	0	B3
58043	12V80AH	310X175X190	605	123	A	0	B3
DIN85 SMF	12V85AH	350X175X190	625	150	A	0	B3
DIN88 SMF	12V88AH	350X175X190	625	150	A	0	B3
58827 SMF	12V88AH	350X175X190	625	150	A	0	B3
DIN90 SMF	12V90AH	350X175X190	625	150	A	0	B3
DIN100 SMF	12V100AH	350X175X190	650	165	A	0	B3
TRUCK BATTERY							
N120 SMF	12V120AH	506X181X220	711	198	A	3	
N120L SMF	12V120AH	506X181X220	711	198	A	4	
DIN120 SMF	12V120AH	506X181X220	711	198	A	4	
N135 SMF	12V135AH	506X181X220	765	230	A	3	
N150 SMF	12V150AH	506X217X220	882	255	A	3	
N150L SMF	12V150AH	506X217X220	882	255	A	4	
DIN150 SMF	12V150AH	506X217X220	882	255	A	4	
N165 SMF	12V165AH	506X217X220	927	282	A	3	
N170 SMF	12V170AH	506X217X220	927	288	A	3	
18G51L SMF	12V170AH	506X217X220	927	288	A	4	
N180 SMF	12V180AH	506X217X220	995	310	A	3	
N190 SMF	12V190AH	506X260X235	1029	325	A	3	
N200 SMF	12V200AH	506X260X235	1060	375	A	3	
N200L SMF	12V200AH	506X260X235	1060	375	A	4	
8D-200	12V200AH	506X260X235	1060	375	A	4	
N220 SMF	12V220AH	506X260X235	1281	394	A	3	
8D-220	12V220AH	506X260X235	1281	394	A	3	