

Type		item code	C20 amp-hrs	reserve mins	cca -18C	dimensions, mm				cell layout	terminal	holddown	Qty Per Pallet*		
Size	New JIS					Old JIS	L	W	H					TH	
<b>Car &amp; Truck Maintenance- Free Batteries</b>															
B20	-	NS40ZL	MF40B19L	35	50	330	196	128	199	219	0	small	-	215	
	-	NS40Z	MF40B19R	35	50	330	196	128	199	219	1	small	-	215	
	-	NS40ZLS	MF40B19LS	35	50	330	196	128	199	219	0	standard	-	215	
	-	NS40ZS	MF40B19RS	35	50	330	196	128	199	219	1	standard	-	215	
	-	-	MF40B19FL	35	50	330	196	139	199	219	0	small	B3	194	
	42B19L	-	MF42B19L	38	55	350	196	128	199	219	0	small	-	211	
	42B19R	-	MF42B19R	38	55	350	196	128	199	219	1	small	-	211	
	42B19LS	-	MF42B19LS	38	55	350	196	128	199	219	0	standard	-	211	
	42B19RS	-	MF42B19RS	38	55	350	196	128	199	219	1	standard	-	211	
	42B19FL	-	MF42B19FL	38	55	350	196	139	199	219	0	small	B3	185	
	44B19L	-	MF44B19L	40	60	370	196	128	199	219	0	small	-	194	
	44B19R	-	MF44B19R	40	60	370	196	128	199	219	1	small	-	194	
	44B19LS	-	MF44B19LS	40	60	370	196	128	199	219	0	standard	-		
	44B19RS	-	MF44B19RS	40	60	370	196	128	199	219	1	standard	-		
44B19FL	-	MF44B19FL	40	60	370	196	139	199	219	0	small	B3			
B24	50B24L	NS60L	MF50B24L	45	60	400	236	128	200	221	0	small	-	174	
	50B24R	NS60	MF50B24R	45	60	400	236	128	200	221	1	small	-	174	
	50B24LS	NS60LS	MF50B24LS	45	60	400	236	128	200	221	0	standard	-	174	
	50B24RS	NS60S	MF50B24RS	45	60	400	236	128	200	221	1	standard	-	174	
	55B24L	NX100-S6L	MF55B24L	45	65	430	236	128	200	219	0	small	-	172	
	55B24R	NX100-S6	MF55B24R	45	65	430	236	128	200	219	1	small	-	172	
	55B24LS	NX100-S6LS	MF55B24LS	45	65	430	236	128	200	219	0	standard	-	172	
	55B24RS	NX100-S6S	MF55B24RS	45	65	430	236	128	200	219	1	standard	-	172	
	-	-	MF60B24L	48	70	460	236	128	200	219	0	small	-	167	
	-	-	MF60B24R	48	70	460	236	128	200	219	1	small	-	167	
	-	-	MF60B24LS	48	70	460	236	128	200	219	0	standard	-	167	
	-	-	MF60B24RS	48	70	460	236	128	200	219	1	standard	-	167	
	D23	55D23L	-	MF55D23L	60	100	550	233	173	201	222	0	standard	-	122
		55D23R	-	MF55D23R	60	100	550	233	173	201	222	1	standard	-	122
75D23L		-	MF75D23L	65	110	580	233	173	201	222	0	standard	-	118	
75D23R		-	MF75D23R	65	110	580	233	173	201	222	1	standard	-	118	
85D23L		-	MF85D23L	68	120	600	233	173	201	222	0	standard	-	120	
85D23R		-	MF85D23R	68	120	600	233	173	201	222	1	standard	-	120	
D26		48D26L	N50L	MF48D26L	50	85	450	259	174	202	223	0	standard	-	125
	48D26R	N50	MF48D26R	50	85	450	259	174	202	223	1	standard	-	125	
	55D26L	N50ZL	MF55D26L	60	110	550	259	174	202	223	0	standard	-	115	
	55D26R	N50Z	MF55D26R	60	110	550	259	174	202	223	1	standard	-	115	
	75D26L	NS70L	MF75D26L	65	120	580	259	174	202	223	0	standard	-	115	
	75D26R	NS70	MF75D26R	65	120	580	259	174	202	223	1	standard	-	115	
	80D26L	NX110-5L	MF80D26L	70	130	600	259	174	202	223	0	standard	-	115	
	80D26R	NX110-5	MF80D26R	70	130	600	259	174	202	223	1	standard	-	115	
	-	-	MF90D26L	72	140	630	259	174	202	223	0	standard	-	109	
	-	-	MF90D26R	72	140	630	259	174	202	223	1	standard	-	109	
	D31	-	N70L	MF65D31L	70	115	600	304	174	203	223	0	standard	-	108
-		N70	MF65D31R	70	115	600	304	174	203	223	1	standard	-	108	
75D31L		N70ZL	MF75D31L	75	125	660	304	174	203	223	0	standard	-	100	
75D31R		N70Z	MF75D31R	75	125	660	304	174	203	223	1	standard	-	100	
95D31L		NX120-7L	MF95D31L	80	140	670	304	174	203	223	0	standard	-	94	
95D31R		NX120-7	MF95D31R	80	140	670	304	174	203	223	1	standard	-	94	
105D31L		-	MF105D31L	90	150	750	304	174	203	223	0	standard	-	90	
105D31R		-	MF105D31R	90	150	750	304	174	203	223	1	standard	-	90	
-		-	MF115D31L	95	170	830	304	174	203	223	0	standard	-	90	
-		-	MF115D31R	95	170	830	304	174	203	223	1	standard	-	90	
E41	95E41L	N100L	MF95E41L	100	180	830	405	173	211	232	0	standard	-	76	
	95E41R	N100	MF95E41R	100	180	830	405	173	211	232	1	standard	-	76	
F51	135F51	N120L	MF135F51	120	200	870	505	180	210	233	4	standard	-	56	
G51	145G51L	N150L	MF145G51L	150	290	1000	508	220	210	236	4	standard	-	56	
	145G51R	N150	MF145G51R	150	290	1000	508	220	210	236	3	standard	-	48	
H52	210H52L	N200L	MF210H52L	200	400	1200	524	278	225	251	4	standard	-	34	
	210H52R	N200	MF210H52R	200	400	1200	524	278	225	251	3	standard	-	34	
	245H52L	-	MF245H52L	220	450	1400	524	278	225	251	4	standard	-	34	
	245H52R	-	MF245H52R	220	450	1400	524	278	225	251	3	standard	-	34	

D31, D26 and D23 Dimension: Based on R5 design

\* based on maximum weight

group	item code	C20 amp-hrs	reserve mins	cca -18C	dimensions, mm				cell layout	terminal	holddown
					L	W	H	TH			
<b>BCI Car &amp; Truck Maintenance-Free Batteries</b>											
51	MF51-430		70	430	236	128	200	219	10	standard	-
51R	MF51R-430		70	430	236	128	200	219	11	standard	-
34	MF34-550	45	85	550	258	171	183	204	10	standard	B1
	MF34-650	55	100	630	258	171	183	204	10	standard	B1
	MF34-670	60	110	670	258	171	183	204	10	standard	B1
25	MF25-550	65	100	550	227	171	195	216	10	standard	B1
	MF25-580	60	110	580	227	171	195	216	10	standard	B1
G35	MF35-550	65	100	550	227	171	195	216	11	standard	B1
	MF35-580	60	110	580	227	171	195	216	11	standard	B1
24	MF24-450	50	85	450	259	174	202	223	10	standard	B1
	MF24-500	55	95	500	259	174	202	223	10	standard	B1
	MF24-550	60	100	550	259	174	202	223	10	standard	B1
	MF24-600	70	130	600	259	174	202	223	10	standard	B1
	MF24-630	72	140	630	259	174	202	223	10	standard	B1
	MF24-680	75	150	680	259	174	202	223	10	standard	B1
	MF24-750	85	160	750	259	174	202	223	10	standard	B1
24R	MF24R-450	50	85	450	259	174	202	223	11	standard	B1
	MF24R-500	55	95	500	259	174	202	223	11	standard	B1
	MF24R-550	60	100	550	259	174	202	223	11	standard	B1
	MF24R-600	70	130	600	259	174	202	223	11	standard	B1
	MF24R-630	72	140	630	259	174	202	223	11	standard	B1
	MF24R-680	75	150	680	259	174	202	223	11	standard	B1
27	MF27-750	85	160	750	259	174	202	223	11	standard	B1
	MF27-630	65	130	630	304	174	203	223	10	standard	B1
	MF27-670	80	140	670	304	174	203	223	10	standard	B1
	MF27-750	90	150	750	304	174	203	223	10	standard	B1
	MF27-810	100	180	810	304	174	203	223	10	standard	B1
27R	MF27-840	95	190	840	304	174	203	223	10	standard	B1
	MF27-630	65	130	630	304	174	203	223	11	standard	B1
	MF27-670	80	140	670	304	174	203	223	11	standard	B1
	MF27-750	90	150	750	304	174	203	223	11	standard	B1
31	MF31-810	100	180	810	304	174	203	223	11	standard	B1
	MF31-840	95	190	840	304	174	203	223	11	standard	B1
	MF31-630	65	130	630	329	172	215	239	18	standard	-
	MF31-700	75	150	700	329	172	215	239	18	standard	-
	MF31-800	85	170	800	329	172	215	239	18	standard	-
31S	MF31-850	90	180	850	329	172	215	239	18	standard	-
	MF31-1000	100	190	1000	329	172	215	239	18	standard	-
	MF31S-630	65	130	630	329	172	215	236	18	Stud	-
	MF31S-700	75	150	700	329	172	215	236	18	Stud	-
	MF31S-800	85	170	800	329	172	215	236	18	Stud	-
90	MF90-850	90	180	850	329	172	215	236	18	Stud	-
	MF90-1000	100	190	1000	329	172	215	236	18	Stud	-
	MF90-450	45	80	450	236	175	175	175	24	standard	B3
47	MF90-500	54	90	500	236	175	175	175	24	standard	B3
	MF90-550	60	100	550	236	175	175	175	24	standard	B3
	MF47-600	62	110	600	242	175	190	190	24	standard	B3
91	MF91-580	63	100	580	277	175	175	175	24	standard	B3
	MF91-630	68	110	630	277	175	175	175	24	standard	B3
	MF91-690	72	130	690	277	175	175	175	24	standard	B3
48	MF48-630	68	110	630	278	175	190	190	24	standard	B3
	MF48-690	72	130	690	278	175	190	190	24	standard	B3
49	MF49-750	92	160	750	351	175	190	190	24	standard	B3
	MF49-850	100	180	850	354	175	190	190	24	standard	B3
93	MF93-800	85	140	800	351	175	175	175	24	standard	B3
58	MF58-460	40	75	460	250	182	155	177	26	standard	B8
	MF58-500	50	90	500	250	182	155	177	26	standard	B8
	MF58-560	60	100	560	250	182	155	177	26	standard	B8
65	MF65-650	60	130	650	286	189	172	194	10	standard	B8
	MF65-750	70	140	750	286	189	172	194	10	standard	B8
75	MF75-500	50	90	500	227	179	182	182	17	Side	B1
	MF75-550	60	100	550	227	179	182	182	17	Side	B1
75DT	MF75DT-500	50	90	500	227	179	182	204		Dual Terminal	B1
	MF75DT-550	60	100	550	227	179	182	204		Dual Terminal	B1
78	MF78-500	45	90	500	258	179	183	183	17	Side	B1
	MF78-600	60	113	600	258	179	183	183	17	Side	B1
	MF78-710	70	140	710	258	179	183	183	17	Side	B1
	MF78DT-500	45	90	500	258	179	183	205		Dual Terminal	B1
78DT	MF78DT-600	60	113	600	258	179	183	205		Dual Terminal	B1
	MF78DT-710	70	140	710	258	179	183	205		Dual Terminal	B1
4DLT	MF4DLT-800	145	260	800	510	208	177	204	8	standard	-
	MF4DLT-900	150	270	900	510	208	177	204	8	standard	-
4D	MF4D-1000	150	300	1000	508	220	210	236	8	standard	-
	MF4D-1100	200	400	1100	508	220	210	236	8	standard	-
8D	MF8D-1200	200	400	1200	524	278	225	251	8	standard	-
	MF8D-1400	220	460	1400	524	278	225	251	8	standard	-
22F	MF22F-450	40	75	450	237	171	182	210	11F	Dual Fit	B9
	MF22F-500	45	90	500	237	171	182	210	11F	Dual Fit	B9
	MF22F-550	50	95	550	237	171	182	210	11F	Dual Fit	B9
	MF22F-600	60	110	600	237	171	182	210	11F	Dual Fit	B9

item code	volts	C20 amp-hrs	reserve mins	cca -18C	dimensions, mm				cell layout	terminal
					L	W	H	TH		
<b>Deep Cycle</b>										
GC2	6	220	110*		261	181	245	274	2	Special Marine
GC8	8	165	75*		260	180	246	278		Special Marine
SMN40	12	40	-	-	229	138	203	242	1	Special Marine
SMN70	12	70	-	-	304	173	201	239	0	Special Marine
SMN100	12	100	-	-	391	175	199	237	0	Special Marine
SMF51L	12	120	-	-	502	180	207	246	4	Special Marine
SMH52L	12	200	-	-	524	278	214	242	4	Flag
DU1	12	40	-	-	196	128	159	184	1	U1
D48	12	60	-	-	230	173	182	203	1	Dual Marine
D50Z	12	80	-	-	259	173	202	223	1	Dual Marine
D70Z	12	105	-	-	304	173	203	224	1	Dual Marine
D87L	12	120	-	-	329	172	215	239	1	std
D200P	12	220	-	-	524	278	214	241	4	std

\*discharge rate at 75A

#### Starting and Deep Cycle

MRV48	12	60	100	525	237	171	182	208	1	Dual Fit
MRV50	12	80	140	650	259	173	202	223	1	Dual Marine
MRV70	12	105	160	760	304	173	203	224	1	Dual Marine
MRV70L	12	105	160	760	304	173	203	224	0	Dual Marine
MRV87	12	120	180	825	329	172	215	236	1	stud

#### Marine Starting

M50	12	70	130	585	269	173	201	240	1	Special Marine
M70	12	80	160	660	305	173	202	223	1	Dual Marine
M87LZ	12	95	175	700	333	173	201	241	1	Special Marine
MFM48	12	60	105	575	233	171	182	220	1	Special Marine
MFM50	12	80	140	640	269	173	205	227	1	Dual Marine
MFM70	12	90	160	720	305	174	205	227	1	Dual Marine

Type		item code	C20 amp-hrs	reserve mins	cca -18C	dimensions, mm				cell layout	terminal	holddown	
Size	New JIS					Old JIS	L	W	H				TH
<b>Car &amp; Truck Low Maintenance Batteries</b>													
B20	-	NS40L	34B20L	30	50	260	196	128	199	219	0	small	-
	-	NS40	34B20R	30	50	260	196	128	199	219	1	small	-
	-	NS40LS	34B20LS	30	50	260	196	128	199	219	0	std	-
	-	NS40S	34B20RS	30	50	260	196	128	199	219	1	std	-
	38B20L	NS40ZL	38B20L	35	55	300	196	128	199	219	0	small	-
	38B20R	NS40Z	38B20R	35	55	300	196	128	199	219	1	small	-
	38B20LS	NS40ZLS	38B20LS	35	55	300	196	128	199	219	0	std	-
	38B20RS	NS40ZS	38B20RS	35	55	300	196	128	199	219	1	std	-
B24	46B24L	NS60L	46B24L	35	55	300	236	128	200	221	0	small	-
	46B24R	NS60	46B24R	35	55	300	236	128	200	221	1	small	-
	46B24LS	NS60LS	46B24LS	35	55	300	236	128	200	221	0	std	-
	46B24RS	NS60S	46B24RS	35	55	300	236	128	200	221	1	std	-
	55B24L	NX100-S6L	55B24L	45	70	350	236	128	200	219	0	small	-
	55B24R	NX100-S6	55B24R	45	70	350	236	128	200	219	1	small	-
D23	55D23L	-	55D23L	60	100	500	237	171	184	205	0	std	B9
D26	48D26L	N50L	48D26L	50	85	400	258	173	202	222	0	std	B1
	48D26R	N50	48D26R	50	85	400	258	173	202	222	1	std	B1
	55D26L	N50ZL	55D26L	60	110	450	258	173	202	222	0	std	B1
	55D26R	N50Z	55D26R	60	110	450	258	173	202	222	1	std	B1
	80D26L	NX110-5L	80D26L	70	130	550	258	173	202	222	0	std	B1
	80D26R	NX110-5	80D26R	70	130	550	258	173	202	222	1	std	B1
D31	-	N70L	65D31L	65	115	550	304	173	203	224	0	std	B1
	-	N70	65D31R	65	115	550	304	173	203	224	1	std	B1
	75D31L	N70ZL	75D31L	70	125	650	304	173	203	224	0	std	B1
	75D31R	N70Z	75D31R	70	125	650	304	173	203	224	1	std	B1
	95D31L	NX120-7L	95D31L	80	140	670	304	173	203	224	0	std	B1
	95D31R	NX120-7	95D31R	80	140	670	304	173	203	224	1	std	B1
	105D31L	-	105D31L	85	150	760	304	173	203	224	0	std	B1
	105D31R	-	105D31R	85	150	760	304	173	203	224	1	std	B1
E41	95E41L	N100L	95E41L	100	180	720	391	175	199	219	0	std	-
	95E41R	N100	95E41R	100	180	720	391	175	199	219	1	std	-
F51	115F51	N120	115F51	120	200	850	502	180	207	231	4	std	-
G51	145G51	N150	145G51	150	270	1000	508	220	208	234	4	std	-
H52	210H52	N200	210H52	200	370	1200	524	278	214	240	4	std	-

\*D26 and D31 Dimension: Based on R2 design

group	item code	din	C20 amp-hrs	reserve mins	cca EN	dimensions, mm			cell layout	terminal	holddown
						L	W	H			
<b>DIN Car Maintenance- Free Batteries</b>											
LB1	MF53646	53646	36	70	330	213	175	175	0	std	B3
	MF54321	54321	45	85	450	213	175	175	0	std	B3
	MF54322	54322	45	85	450	213	175	175	1	std	B3
LB2	MF54519	54519	44	80	390	236	175	175	0	std	B3
	MF		45	80	390	236	175	175	1	std	B3
	MF55046	55046	50	90	450	236	175	175	0	std	B3
	MF		50	90	450	236	175	175	1	std	B3
	MF55457	55457	54	95	480	236	175	175	0	std	B3
	MF55459	55459	54	95	480	236	175	175	1	std	B3
	MF56077	56077	60	110	510	236	175	175	0	std	B3
	MF		60	110	510	236	175	175	1	std	B3
L2	MF56219	56219	62	110	540	242	175	190	0	std	B3
	MF56220	56220	62	110	540	242	175	190	1	std	B3
LB3	MF56318	56318	63	110	540	277	175	175	0	std	B3
	MF		63	110	540	277	175	175	1	std	B3
	MF56828	56828	68	120	570	277	175	175	0	std	B3
	MF56821	56821	68	120	570	277	175	175	1	std	B3
	MF57113	57113	72	130	640	277	175	175	0	std	B3
	MF		72	130	640	277	175	175	1	std	B3
L3	MF56638	56638	66	130	540	278	175	190	0	std	B3
	MF56633	56633	66	130	540	278	175	190	0	std	B3
	MF57219	57219	72	135	610	278	175	190	0	std	B3
	MF57220	57220	72	135	610	278	175	190	0	std	B3
	MF57412	57412	74	160	680	278	175	190	0	std	B3
	MF57413	57413	74	160	680	278	175	190	0	std	B3
LB5	MF58515	58515	85	160	720	351	175	175	0	std	B3
L5	MF58821	58821	92	170	720	351	175	190	0	std	B3
	MF60038	60038	100	190	850	351	175	190	0	std	B3

\* CCA SAE = CCA EN \* 1.07