

Speed Mate

Sealed Maintenance Free
Automotive Battery

 **Speed Mate**

<http://parts.speedmate.com>



Since 1993



Speed Mate

Speedmate offers you extensive range of sealed maintenance free batteries with advanced technologies to ensure durable and reliable batteries to meet your vehicle's needs.

Speedmate batteries are manufactured by the world's largest battery manufacturer in compliance with the Original Equipment quality standards which is guaranteed to have high quality and constant production process. Speedmate guarantees our customer's satisfaction by delivering world's best products and services.

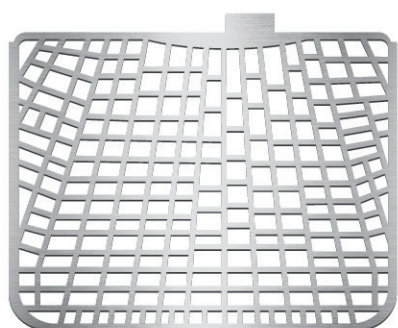
*Enjoy your drive
with Speedmate*



Stamped Grid Technology

Maximized Power & Enhanced Stability

Stamped Grid Technology produces patterned and fully frame grids through a manufacturing process. Compared to conventional batteries, this advanced grid design is designed to deliver stronger performance, longer life and stable electrical flow.

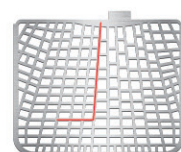


The Innovative Grid Design for Extra Power & Long Life

Stamped Grid design enables faster recharge acceptance and optimal conductivity. This design is up to 60% more durable and more corrosion-resistant than conventional grid design. It also prevents grid growth and short from exposed wire.



Better Conductivity



✓ STAMPED GRID



WROUGHT GRID

Corrosion Resistance



✓ STAMPED GRID



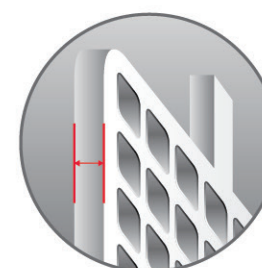
WROUGHT GRID

Heat Proof Technology

HEAT PROOF Batteries are especially designed for hot weather to have higher resistance to corrosion and provide longer life.

If you are constantly driving in hot climates, it is likely to have your car battery experiences corrosion within a year or two. In order to prevent the possibilities of having more corrosions in this specific weather condition, you'd better choose the right battery that can endure hot temperatures, and it will make your battery lifetime longer.

Grid Thickness

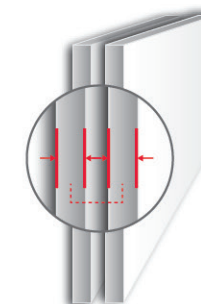


✓ HEAT PROOF GRID

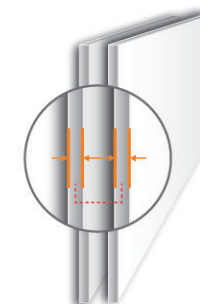


STANDARD

Separators Thickness



✓ HEAT PROOF SEPARATOR



STANDARD

 Battery Specification
Made in Korea

JIS Type

No.	Group No.	Model No.	Capacity (20HR)	CCA SAE	Dimensions (mm)			Terminal Type	Cell Layout	Bottom Hold Down
					L	W	TH			
01	B19	42B19L	35	300	186	126	225	B	0	B0
02		42B19R	35	300	186	126	225	B	1	B0
03		44B19L / LS	40	350	186	126	225	B / A	0	B0
04		44B19R / RS	40	350	186	126	225	B / A	1	B0
05	B20	38B20L	35	310	196	128	225	A	0	B0
06		38B20R	35	310	196	128	225	A	1	B0
07	B24	46B24L / LS	45	325	238	129	227	B / A	0	B0
08		46B24R / RS	45	325	238	129	227	B / A	1	B0
09		55B24L / LS	45	430	238	129	227	B / A	0	B0
10		55B24R / RS	45	430	238	129	227	B / A	1	B0
11		65B24L / LS	55	490	238	129	227	B / A	0	B0
12		65B24R / RS	55	490	238	129	227	B / A	1	B0
13	D20	50D20L	50	500	206	172	219	A	0	B7
14		50D20R	50	525	206	172	205	A	1	B7
15	D23	55D23L	60	490	229	172	225	A	0	B7
16		55D23R	60	490	229	172	225	A	1	B7
17		75D23L	65	520	229	172	225	A	0	B7
18		75D23R	65	520	229	172	225	A	1	B7
19		80D23L	68	600	229	172	225	A	0	B7
20		80D23R	68	600	229	172	225	A	1	B7
21		90D23L	70	600	229	172	225	A	0	B7
22		90D23R	70	600	229	172	225	A	1	B7
23	D26	48D26L	50	350	260	172	225	A	0	B7
24		48D26R	50	350	260	172	225	A	1	B7
25		55D26L	60	475	260	172	225	A	0	B7
26		55D26R	60	475	260	172	225	A	1	B7
27		65D26L	65	540	260	172	225	A	0	B3
28		65D26R	65	550	260	172	225	A	1	B3
29		80D26L	75	580	260	172	225	A	0	B7
30		80D26R	75	580	260	172	225	A	1	B7
31		90D26L	80	700	260	172	225	A	0	B7
32		90D26R	80	700	260	172	225	A	1	B7
33	D31	110D26L	93	680	260	172	225	A	0	B7
34		110D26R	93	680	260	172	225	A	1	B7
35		65D31L	70	530	305	172	225	A	0	B7
36		65D31R	70	530	305	172	225	A	1	B7
37		75D31L	75	540	305	172	225	A	0	B7
38		75D31R	75	540	305	172	225	A	1	B7
39		95D31L	80	620	305	172	225	A	0	B7
40		95D31R	80	620	305	172	225	A	1	B7
41	100G	105D31L	90	680	305	172	225	A	0	B7
42		105D31R	90	680	305	172	225	A	1	B7
43		115D31L	100	800	305	172	225	A	0	B7
44		115D31R	100	800	305	172	225	A	1	B7
45		MF100GL	100	900	325	172	225	A	0	B7
46		MF100GR	100	900	325	172	225	A	1	B7
47	26H	MF100DL	100	730	263	247	225	A	0	B0
48		MF100DR	100	730	263	247	225	A	1	B0
49	E41	95E41L	100	750	406	172	231	A	0	B0
50		95E41R	100	750	406	172	231	A	1	B0
51		130E41L	110	750	406	172	231	A	0	B0
52		130E41R	110	750	406	172	231	A	1	B0
53	F51	115F51L	120	800	503	182	231	A	4	B0
54		115F51R	120	800	503	182	231	A	5	B0
55	G51	150G51L	150	950	507	213	231	A	4	B0
56		150G51R	150	950	507	213	231	A	5	B0
57		MF170L	180	1090	507	213	231	A	4	B0
58		MF170R	180	1090	507	213	231	A	5	B0
59	H52	200H52L	200	1000	510	275	238	A	4	B0
60		200H52R	200	1000	510	275	238	A	5	B0
61		225H52L	220	1300	510	275	238	A	4	B0
62		225H52R	220	1300	510	275	238	A	5	B0

 Battery Specification
Made in Korea

DIN Type

No.	Group No.	Model No.	Capacity (20HR)	CCA		Dimensions (mm)			Terminal Type	Cell Layout	Bottom Hold Down
				SAE	EN	L	W	TH			
01	LBN1	53518	35	320	300	207	174	174	A	0	B3
02		53519	35	320	300	207	174	174	A	1	B3
03		54316	43	400	370	207	174	174	A	0	B3
04		54313	43	400	370	207	174	174	A	1	B3
05	LN1	54459	44	400	370	206	174	188	A	0	B3
06		54464	44	400	370	206	174	188	A	1	B3
07		55066	50	400	370	206	174	188	A	0	B3
08	LBN2	54519	45	410	380	242	174	174	A	0	B4
09		55457	54	500	470	242	174	174	A	0	B3
10		55458	54	500	470	242	174	174	A	1	B3
11		56177	61	610	570	242	174	174	A	0	B3
12	LN2	55559	55	525	490	242	174	188	A	0	B3
13		55565	55	525	490	242	174	188	A	1	B3
14		56030	60	525	490	242	174	188	A	0	B3
15		56031	60	525	490	242	174	188	A	1	B3
16		56219	62	580	540	242	174	188	A	0	B3
17		56217	62	580	540	242	174	188	A	1	B3
18		56513	65	650	610	242	174	188	A	0	B3
19		56514	65	650	610	242	174	188	A	1	B3
20	LBN3	56318	63	540	500	277	174	174	A	0	B4
21		57539	75	630	590	277	174	174	A	0	B3
22	LN3	56638	66	500	470	277	174	188	A	0	B3
23		56633	66	500	470	277	174	188	A	1	B3
24		57220	72	600	560	277	174	188	A	0	B3
25		57219	72	600	560	277	174	188	A	1	B3
26		57412	74	680	640	277	174	188	A	0	B3
27		57413	74	680	640	277	174	188	A	1	B3
28		57540	75	600	560	277	174	188	A	0	B3
29		58014	80	770	720	277	174	188	A	0	B3
30	LBN4	58039	80	730	680	313	174	174	A	0	B3
31	LN4	59096	90	912	860	313	174	188	A	0	B3
32		59095	90	912	860	313	174	188	A	1	B3
33	LN5	58827	88	600	560	352	174	188	A	0	B3
34		59218	92	650	610	352	174	188	A	0	B3
35		60038	100	650	610	352	174	188	A	0	B3
36		60044	100	800	750	352	174	188	A	0	B3
37	LN6	61038	110	900	850	393	174	188	A	0	B3
38	B20	53520	35	310	290	196	137	225	B	0	B0
39		53522	35	310	290	196	137	225	B	1	B0
40		54087	40	350	310	196	137	225	B	0	B0
41	B24	54523	45	405	370	237	128	225	A	0	B0
42		54524	45	405	370	237	128	225	A	1	B0
43	D23	56068	60	490	450	229	172	225	A	0	B7
44		56069	60	490	450	229	172	225	A	1	B7
45	D26	56048	60	480	440	271	172	225	A	0	B3
46		56049	60	480	440	271	172	225	A	1	B3
47		57029	70	550	510	271	172	225	A	0	B9
48		57024	70	550	510	271	172	225	A	1	B9
49	D31	59517	95	720	680	306	173	225	A	0	B7
50		59518	95	720	680	306	173	225	A	1	B7

Battery Specification
Made in Korea

A. Passenger Car & Commercial Batteries 12 Volt (6 Cells)

BCI Type

No.	Group No.	Model No.	Cranking Ampere at 0°F / -18°C (Amps.)	Reserve Capacity at 80°F (Min.)	Dimensions (mm)			Terminal Type	Cell Layout	Figure No.
					L	W	TH			
01	22F	22F-520	520	95	241	173	205	A,H	0	18,30
02		22FR-520	520	95	241	173	205	A,H	1	18,30
03	24R	24R-630	550	110	260	173	225	A	0	4
04	26	26-550	550	80	206	172	205	A	1	24
05	26R	26R-550	550	80	206	172	205	A	0	24
06	31	31-625	625	180	330	172	240	A	3	6
07		31-750	750	160	330	172	240	A	3	6
08		31-900	900	160	330	172	240	A	3	6
09		31-1000	1000	160	330	172	240	A	3	6
10	31T	31-625T	625	180	330	172	240	F	3	5
11		31-750T	750	160	330	172	240	F	3	5
12		31-900T	900	160	330	172	240	F	3	5
13		31-1000T	1000	160	330	172	240	F	3	5
14	34	34-610	610	110	260	172	206	A	1	17
15	41	41-650	650	110	279	175	175	A	0	12
16	48	48-500	500	110	277	174	188	A	0	12
17		48-600	600	120	277	174	188	A	0	12
18		48-680	680	135	277	174	188	A	0	12
19	58	58-560	560	80	241	183	175	A	1	27
20		58-600	600	90	241	183	175	A	1	27
21	65	65-750	750	160	302	189	191	A	1	28
22		65-850	850	160	302	189	191	A	1	28
23	74	74-680	680	130	260/269	178	203	G	1	14
24	75	75-650	650	90	230/237	178	184	G	1	14
25		75-690	690	90	230/237	178	184	G	1	14
26	78	78-670	670	110	260/268	178	184	G	1	14
27		78-730	730	125	260/268	178	184	G	1	14
28		78-770	770	120	260/268	178	184	G	1	14
29	78DT	78DT-770	790	115	260/268	178	205	A+G	1	15
30	85	85-550	550	90	230	173	205	A	0	24
31	86	86-550	550	90	230	173	205	A	1	24

B. Heavy-Duty Commercial Batteries 12 Volt (6 Cells)

No.	Group No.	Model No.	Cranking Ampere at 0°F / -18°C (Amps.)	Reserve Capacity at 80°F (Min.)	Dimensions (mm)			Terminal Type	Cell Layout	Figure No.
					L	W	TH			
01	4D	4D-1100L	1100	300	507	213	231	A	0	8
02		4D-1100R	1100	300	507	213	231	A	1	8
03	8D	8D-1300	1300	440	510	275	238	A	1	9
04		8D-1500	1500	440	510	275	238	A	1	9

C. General Utility Batteries 12 Volt (6 Cells)

No.	Group No.	Model No.	Cranking Ampere at 0°F / -18°C (Amps.)	Reserve Capacity at 80°F (Min.)	Dimensions (mm)			Terminal Type	Cell Layout	Figure No.
					L	W	TH			
01	U1	U1-230	230	21	197	130	186	C	1	1
02		U1-260	260	33	197	130	186	C	1	1
03	U1R	U1R-230	230	21	197	130	186	C	0	1
04		U1R-260	260	33	197	130	186	C	0	1

D. Deep Cycle

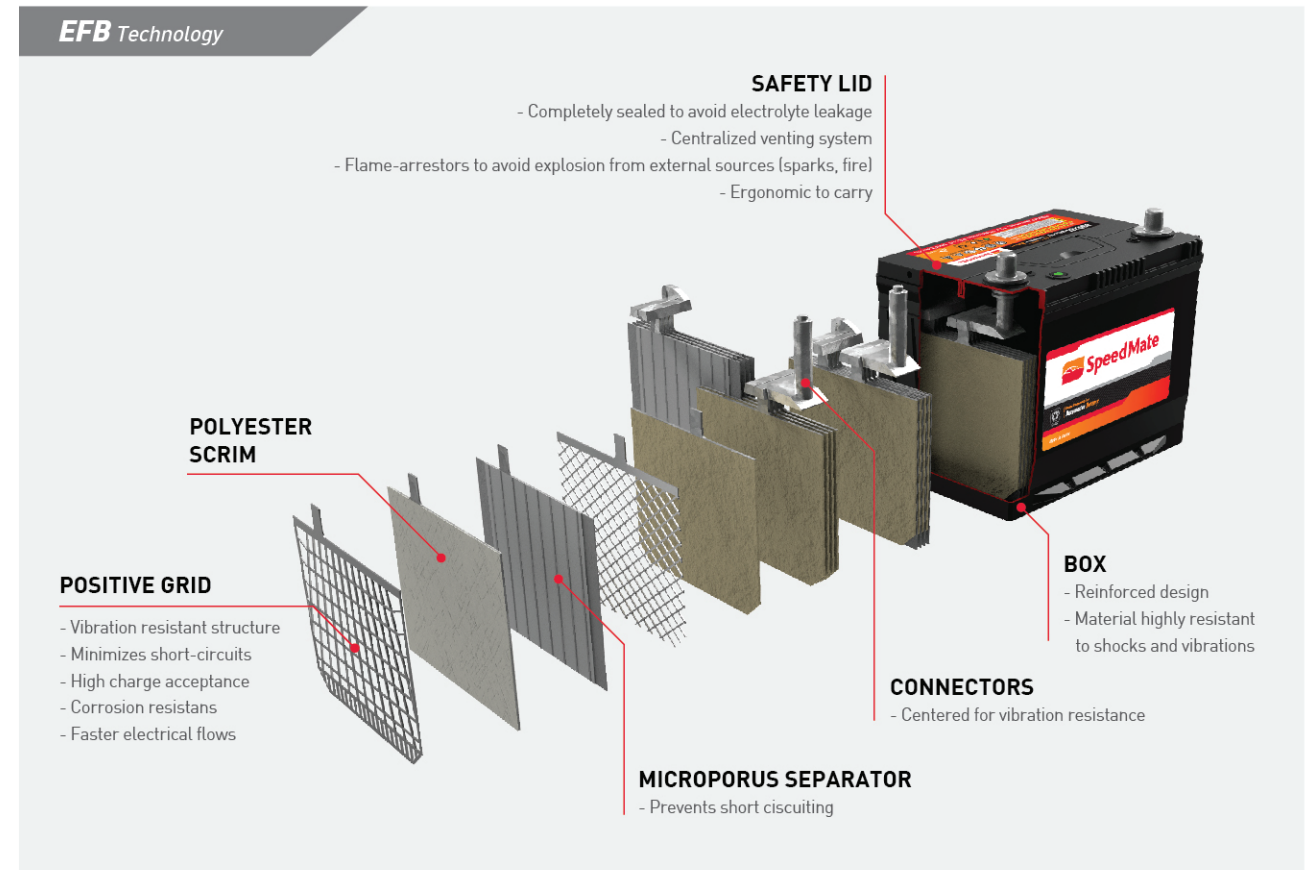
No.	Group No.	Model No.	Reserve Capacity (Amps.)	Terminal Type	Dimensions (mm)			Cell Layout	Figure No.
					L	W	TH		
01	24	DC24	120 (70AH/20HR)	SAE Posts/ Wing Nut	275	172	229	1	16
02	27	DC27	150 (85AH/20HR)	SAE Posts/ Wing Nut	305	172	225	1	16
03	31	DC31	180 (100AH/20HR)	SAE Posts/ Wing Nut	331	172	235	3	16

E. Marine & RV

No.	Group No.	Model No.	Cranking Ampere at 0°F / -18°C (Amps.)	Reserve Capacity (Min.)	Dimensions (mm)			Terminal Type	Cell Layout	Figure No.
					L	W	TH			
01	24	M24	490	115 (65AH/20HR)	275	172	225	SAE Posts/ Wing Nut	1	29
02	27	M27	630	165	305	172	225	SAE Posts/ Wing Nut	1	29
03	31	M31	625	180 (100AH/20HR)	330	172	230	SAE Posts/ Wing Nut	3	29

EFB Technology**Enhanced Flooded Batteries are built for
higher performance and reliability for many charging cycles and long life.**

The EFB TECHNOLOGY is made of the plates are insulated from each other with a microporous separator. Between the plate and the separator, a polyester scrim is placed. This material helps to stabilize the active material of the plates and extend the life of the battery. EFB batteries are often installed in vehicles with simple automatic start-stop systems. For standard vehicles, EFB technology also provides enhanced starting power for reliable performance all throughout the day. EFB batteries provide more than two times for partial and deep discharge performance compared to the traditional batteries. It has also a large number of possible charging cycles.

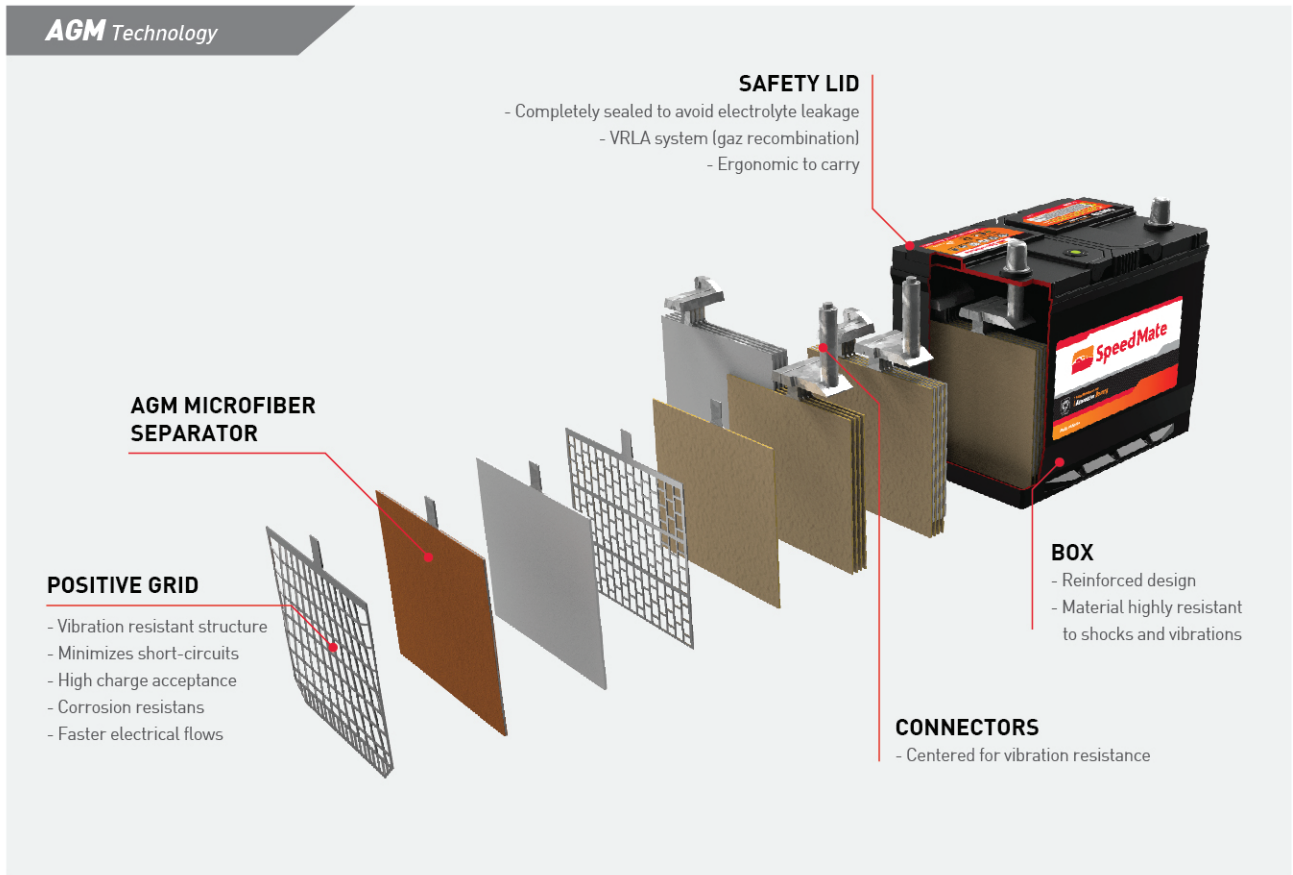
Battery Specification
Made in Korea**EFB**

No.	Group No.	Model No.	Capacity (20HR)	CCA SAE	Dimensions (mm)			Terminal Type	Cell Layout	Bottom Hold Down
					L	W	TH			
01	B19	EFB-60B19L	37	380	187	127	227	A	0	B0
02	B20	EFB-60B20L	40	400	196	128	225	B	0	B0
03		EFB-60B20R	40	400	196	128	225	B	1	B0
04	B24	EFB-80B24L	55	500	238	129	227	B	0	B0
05		EFB-80B24R	55	500	238	129	227	B	1	B0
06	D23	EFB-95D23L	65	620	229	172	225	A	0	B7
07		EFB-95D23R	65	620	229	172	225	A	1	B7
08		EFB-115D23L	70	660	229	172	225	A	0	B7
09		EFB-115D23R	70	660	229	172	225	A	1	B7
10	D26	EFB-115D26L	80	720	260	172	225	A	0	B7
11		EFB-115D26R	80	720	260	172	225	A	1	B7
12	D31	EFB-145D31L	90	820	305	172	225	A	0	B7
13		EFB-145D31R	90	820	305	172	225	A	1	B7
14	LN2	LN2-EFB	60	560	241	174	188	A	0	B3
15	LN3	LN3-EFB	70	720	277	174	188	A	0	B3

AGM Technology

Absorbent Glass Mat (AGM) are characterized by its high performance and designed for high power demands, the best option for vehicles with advanced start-stop systems.

The AGM TECHNOLOGY is made of absorbent glass microfiber separators which retain the electrolyte and this material enables to prevent the loss of active mass. Fuel-efficient vehicles require enhanced power and durable batteries by reason of the start-stop function and many electrical devices for driving assistance. AGM Batteries are the right choice for advanced start-stop vehicles with high electrical demands. Also, you'd better choose it for vehicles with an intensive use in severe driving environments such as in urban area. AGM technology offers you more than two times of service life than conventional batteries.



Battery Specification
Made in Korea

No.	Group No.	Model No.	Capacity (20HR)	CCA SAE	Dimensions (mm)			Terminal Type	Cell Layout	Bottom Hold Down
					L	W	TH			
01	LN1	AGM LN1 / H4	50	520	206	174	189	A	0	B3
02	LN2	AGM LN2 / H5	60	680	241	174	189	A	0	B3
03	LN3	AGM LN3 / H6	70	760	276	174	189	A	0	B3
04	LN4	AGM LN4 / H7	80	800	314	174	189	A	0	B3
05	LN5	AGM LN5 / H8	95	900	352	174	189	A	0	B3
06	B20	AGM B20 (S34B20R)	35	340	195	126	224	B	1	B0
07	B24	AGM B24 (S46B24R)	45	370	236	126	224	B	1	B0

AGM

Battery Specification
Made in Europe

JIS | DIN | BCI Type

No.	Group No.	Model No.	Capacity (20HR)	CCA SAE	Dimensions (mm)			Terminal Type	Cell Layout	Bottom Hold Down
					L	W	TH			
01	B19	40B19L	35	290	187	127	227	B	0	B0
02		40B19R	35	290	187	127	227	B	1	B0
03	B24	50B24L	45	310	238	129	227	B	0	B0
04		50B24R	45	310	238	129	227	B	1	B0
05		50B24LS	45	310	238	129	227	A	0	B0
06		50B24RS	45	310	238	129	227	A	1	B0
07	D23	55D23L	60	460	232	173	225	A	0	B0
08		55D23R	60	460	232	173	225	A	1	B0
09		75D23L	65	540	232	173	225	A	0	B0
10		75D23R	65	540	232	173	225	A	1	B0
11	D26	48D26L	50	420	261	175	220	A	0	B7
12		48D26R	50	420	261	175	220	A	1	B7
13		55D26L	60	520	261	175	220	A	0	B7
14		55D26R	60	520	261	175	220	A	1	B7
15		80D26L	70	580	261	175	220	A	0	B7
16		80D26R	70	580	261	175	220	A	1	B7
17		90D26L	80	630	261	175	220	A	0	B7
18		90D26R	80	630	261	175	220	A	1	B7
19	D31	65D31L	70	560	306	173	225	A	0	B7
20		65D31R	70	560	306	173	225	A	1	B7
21		95D31L	80	630	306	173	225	A	0	B7
22		95D31R	80	630	306	173	225	A	1	B7
23	D31	105D31L	90	720	306	173	225	A	0	B7
24		105D31R	90	720	306	173	225	A	1	B7
25	E41	95E41L	100	700	413	175	220	A	0	B0
26	E41	95E41R	100	700	413	175	220	A	1	B0
27	F51	135F51L	120	750	513	189	223	A	4	B0
28	G51	160G51L	150	900	513	223	223	A	4	B0
29	G51	170G51L	170	1000	513	223	223	A	4	B0
30	H52	210H52L	200	1100	518	276	242	A	4	B0

01	LB1	54316	43	390	207	175	175	A	0	B3
02	L1	54459	44	390	207	175	190	A	0	B3
03		54464	44	390	207	175	190	A	1	B3
04	LB2	56077	60	570	242	175	175	A	0	B3
05	L2	55559	55	470	242	175	190	A	0	B3
06		55565	55	470	242	175	190	A	1	B3
07		56219	62	540	242	175	190	A	0	B3
08		56221	62	540	242	175	190	A	1	B3
09	LB3	56318	63	550	278	175	175	A	0	B3
10		57113	71	620	278	175	175	A	0	B3
11	L3	56638	66	560	278	175	190	A	0	B3
12		57412	74	660	278	175	190	A	0	B3
13		57413	74	660	278	175	190	A	1	B3
14	LB4	58039	80	650	315	175	175	A	0	B3
15	L4	58043	80	650	315	175	190	A	0	B3
16	LB5	58515	85	730	353	175	175	A	0	B3
17	L5	58838	88	700	353	175	190	A	0	B3
18		60044	100	720	353	175	190	A	0	B3
19	L6	61042	110	900	394	175	190	A	0	B3
20	A	62045	120	750	514	189	223	A	5	B0
21		64035	140	800	514	189	223	A	5	B0
22	B	65513	155	900	513	223	223	A	5	B0
23		67043	170	1000	513	223	223	A	5	B0
24		68032	180	1050	513	223	223	A	5	B0
25	C	70038	200	1100	518	276	242	A	5	B0
26		72512	225	1200	518	276	242	A	5	B0

01	65-72S	65-800	80	800	306	192	194	A	1	B7
02	58	58-610	55	610	253	183	177	A	1	B7
03	34/74/78 DT	34/74/78-800	63	800	277	185	204	A+G	1	B7
04	75/86 DT	75/86-700	55	700	245	186	203	A+G	1	B7

Terminology



• Capacity (AH)

The ability of a fully charged battery to deliver a specified quantity of electricity (Amp-Hr, AH) at a given rate (Amp, A) over a definite period of time(Hr).

• Cold Cranking Ampere (CCA)

Number of amperes a lead acid battery at 0°F (-17.8°C) can deliver for 30 seconds and maintain at least 1.2 volts per cell. Very important for the operation of snowmobile batteries.

• Reserve Capacity (RC)

Number of minutes that a new, fully charged battery will deliver 25 amperes at 26.7°C/80°F and maintain a terminal voltage equal to, or higher than, 1.75 volts per cell. This rating represents the time that battery will continue to operate essential accessories if the alternator or generator of a vehicle fails.

• Polarity (Cell Layout)

Electrical term for describing the charge or voltage relationship between two electrodes.

Cell Layout



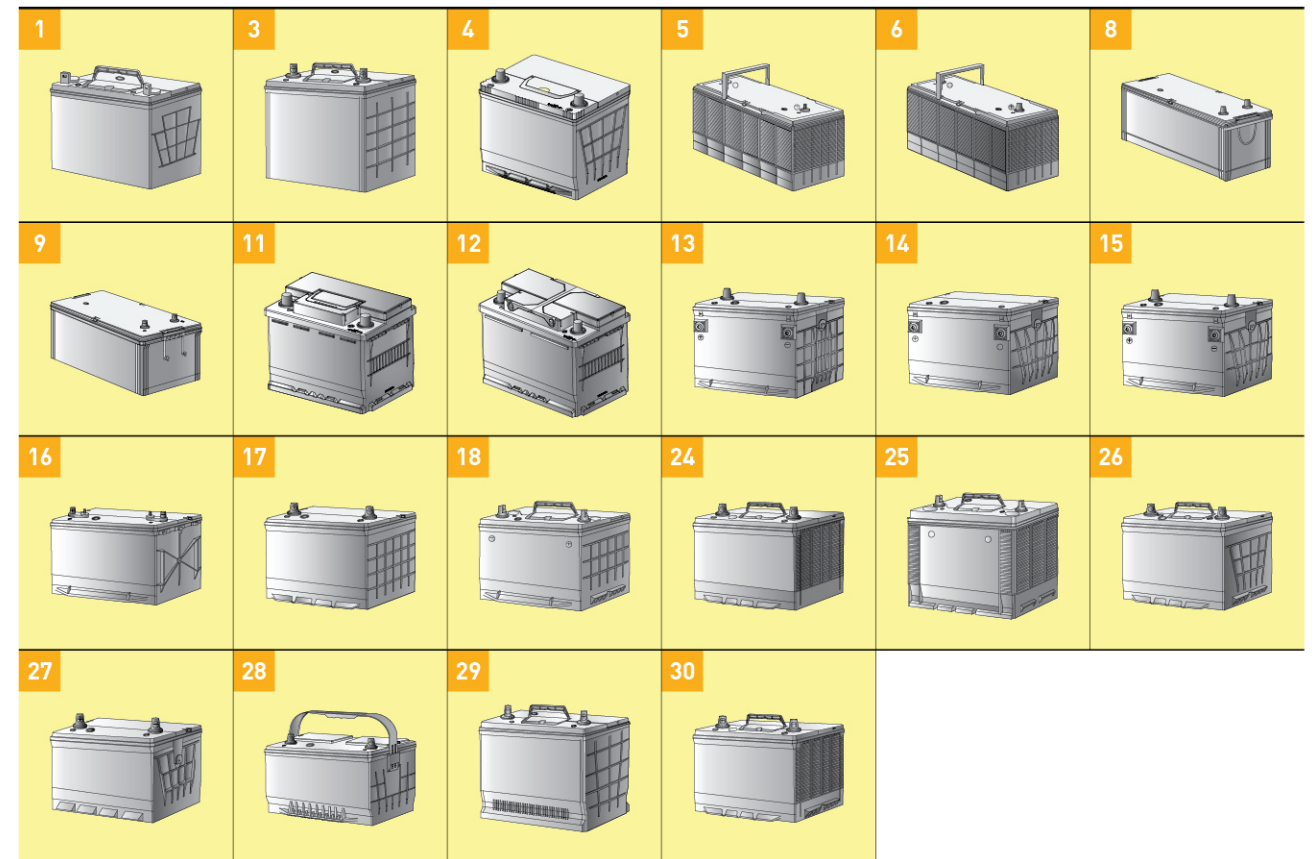
Terminal Type

TYPE A		Standard
TYPE B		Small(JIS)
TYPE C		FRD(Ford LUG)
TYPE D		LUG
TYPE E		Marine
TYPE F		STUD
TYPE G		SIDE
TYPE H		Dual Fit

Bottom Hold Down

B0		B3	
B4		B7	
B8		B9	

Figure No.



Battery Selection Guide

	STANDARD	EFB	AGM		STANDARD	EFB	AGM
Reliable Starting Power	○	○	○	Use in Hot Conditions	○	○	○
Simple Start and Stop		○	○	Higher Resistance to Corrosion	○	○	○
Advanced Start and Stop			○	Deep Cycle Resistance		○	○
Stamped Grid Technology	○	○	○	Original Equipment Quality	○	○	○
Extreme Use		○	○	100% Maintenance Free	○	○	○