

BEST IN CLASS
OE QUALITY

Volcán
MAINTENANCE-FREE BATTERY

LONG LASTING
HEAT SEAL TECHNOLOGY
MAINTENANCE FREE BATTERY



DISTRIBUTED BY

a-map
AL-MUQARRAM AUTO PARTS

A U T O M O T I V E B A T T E R I E S



BATTERY STRUCTURE & CHARACTERISTICS

- 1. EXPANDED PLATES:** Produced using completely automated high performance expanded machinery, which is currently the most advanced plate manufacturing technology worldwide. The unique Pb-Ca alloy formulation with low water loss has been adopted, enabling low self-discharge and long shelf life. Furthermore, the special curing process greatly improves the crystal structure & uniformity of plates resulting in the formation of high resistance PbSO₂ in plate grid interface. Ensuring the battery is always in the strongest cranking performance.
- 2. THE SEPARATOR:** The super- thin glass fiber in separator (or PE envelop) eliminates the short circuit of plates group, reduces the electric resistance and increase the current capacity. The surface fiber can effectively protect the positive plate against severe vibrations to powder off, so as to extend the usage life.
- 3. POLES:** Mechanical forging operation ensure no-leakage. Special technical processing, which make sure the poles are more durable than the traditional one.
- 4. CENTRAL BUSBAR:** Adopting the most advanced COS machine to connect the plates, which are not easy to break and the busbar has high resistance to vibration, low electrical resistance and good electric conductivity.
- 5. MAGIC-EYE INDICATOR:** Easy to check battery charge state.
- 6. DUST-PROOF FLAME ARRESTER:** Prevents explosion caused by overflow of sulphuric acid or sparks.
- 7. COVER:** Equipped with special internal anti-spillage structure, the battery has the excellent performance of leak resistance, ventilation, anti-explosion, overcharge protection, and so on.
- 8. HEAT SEAL TECHNOLOGY:** Heat sealed design to maximize strength and rigidity to prevent electrolyte leakage.

SEALED MF STARTING LEAD ACID BATTERIES

Completely sealed Maintenance-Environment Secured,
Long-lifespan Volcan is your reliable partner !

THE CHARACTERISTIC, USAGE & MAINTENANCE

1. Comes fully Factory-fresh, ready to use - no need to charge or add liquid, you can use it instantly after fitting in the car. During the usage, no need for top up of any electrolyte liquids.
2. When using, keep the battery clean, make sure the connection/ contacts are firmly done. Coat some Vaseline on connections between the pole and clamps and fasten the batteries well to the tray.
3. The strong polypropylene container with the advanced lead-calcium alloy, special diachylum method, anti-acid mist filter plate and vibration resistance makes this battery an ideal choice. It's low self-discharge, vibration resistance, low water loss and excellent cold starting capability make it extremely easy to maintain.
4. If need to offload the battery to charge due to external discharge or long storage without use, you can charge it with constant current of less than 0.1C20A, and keep the voltage in 14.6~14.2V. Charging method: 0.1C20A. Eg: 60AH battery: charging with 6A for 6 hours.
5. Keep batteries in a dry place, avoid storage under direct sunlight.
6. The battery is suitable for vehicles with 14.4-14.2V charging voltage

JIS STANDARD BATTERY (SMF)



JIS GROUP	JIS No.		CAPACITY 20Hr (Ah)	RC (Min.)	CCA	DIMENSION (mm)				LAY-OUT	TERMINAL
	NEW	OLD				LENGTH	WIDTH	HEIGHT	T.HEIGHT		
B20	—	NS40	32	34	205	195	127	200	220	1	A
	—	NS40L	32	34	205	195	127	200	220	0	A
	40B19R	NS40Z	36	45	250	195	127	200	220	1	A
	40B19L	NS40ZL	36	45	250	195	127	200	220	0	A
	40B19RS	NS40Z(S)	36	45	250	195	127	200	220	1	B
	40B19LS	NS40ZL(S)	36	45	250	195	127	200	220	0	B
B24	50B24R	N40	40	45	250	240	129	200	220	1	A
	50B24L	N40L	40	45	250	240	129	200	220	0	A
	50B24RS	N40S	40	45	250	240	129	200	220	1	B
	50B24LS	N40LS	40	45	250	240	129	200	220	0	B
	55B24R	NS60	45	53	280	240	129	200	220	1	A
	55B24L	NS60L	45	53	280	240	129	200	220	0	A
	55B24RS	NS60S	45	53	280	240	129	200	220	1	B
	55B24LS	NS60LS	45	53	280	240	129	200	220	0	B
D23	65D23R	—	60	69	350	230	173	200	220	1	B
	65D23L	—	60	69	350	230	173	200	220	0	B
	75D23R	—	65	81	390	230	173	200	220	1	B
	75D23L	—	65	81	390	230	173	200	220	0	B
D26	48D26R	N50	50	58	300	258	173	200	220	1	B
	48D26L	N50L	50	58	300	258	173	200	220	0	B
	55D26R	N50Z	60	69	345	258	173	200	220	1	B
	55D26L	N50ZL	60	69	345	258	173	200	220	0	B
	75D26R	NS70	65	81	390	258	173	200	220	1	B
	75D26L	NS70L	65	81	390	258	173	200	220	0	B
	85D26R	NX110-5	70	90	430	258	173	200	220	1	B
	85D26L	NX110-5L	70	90	430	258	173	200	220	0	B
D31	65D31R	N70	70	90	430	304	173	198	218	1	B
	65D31L	N70L	70	90	430	304	173	198	218	0	B
	75D31R	N70Z	75	90	430	304	173	198	218	1	B
	75D31L	N70ZL	75	90	430	304	173	198	218	0	B
	95D31L	NX120-7L	80	100	465	304	173	198	218	0	B
	95D31R	NX120-7	80	100	465	304	173	198	218	1	B
	105D31R	N90	90	122	555	304	173	198	218	1	B
	105D31L	N90L	90	122	555	304	173	198	218	0	B
	115D31R	—	95	122	555	304	173	198	218	1	B
	115D31L	—	95	122	555	304	173	198	218	0	B
E41	CMFN100	95E41R	100	134	600	402	172	203	223	1	B
	CMFN100L	95E41L	100	134	600	402	172	203	223	0	B
F51	CMF120	135F51	120	173	680	509	180	195	220	3	B
	CMF120L	135F51L	120	173	680	509	180	195	220	4	B
G51	CMF150	160G51	150	218	780	517	221	195	228	3	B
	CMF150L	160G51L	150	218	780	517	221	195	228	4	B
	CMF165	—	165	280	850	517	221	195	228	3	B
	CMF170	—	170	248	800	517	221	195	228	3	B
	CMF170L	—	170	248	800	517	221	195	228	4	B
	CMFN180	195G51	180	248	800	517	221	195	228	3	B
H52	CMF200	210H52	200	300	900	506	264	200	232	3	B
	CMF200L	210H52L	200	300	900	506	264	200	232	4	B

DIN GROUP	TYPE NO.	CAPACITY 20Hr (Ah)	RC (Min.)	CCA	DIMENSION (mm)				CELL LAY-OUT	TERMINAL	HOLD- DOWN
					LENGTH	WIDTH	HEIGHT	T.HEIGHT			
LB1	53646	36	51	290	210	175	175	175	0	B	B3
	53647	36	50	290	210	175	175	175	1	B	B3
	54321	43	51	290	210	175	175	175	0	B	B3
	54322	43	51	290	210	175	175	175	1	B	B3
	54512	45	51	290	210	175	175	175	1	B	B3
L1	54459	44	81	415	207	174	188	188	0	B	B3
	54464	44	81	415	207	174	188	188	1	B	B3
	54419	44	81	415	210	175	190	190	1	B	B3
	55530	55	81	415	210	175	190	190	1	B	B3
LB2	54519	45	62	330	243	174	174	174	0	B	B1/B3
	54520	45	62	330	243	174	174	174	1	B	B1/B3
	55046	50	62	330	240	175	175	175	1	B	B1/B3
	55457	54	62	330	240	175	175	175	0	B	B1/B3
	55459	54	62	330	240	175	175	175	1	B	B1/B3
	56078	60	81	415	240	175	175	175	0	B	B1/B3
	56243	62	81	415	240	175	175	175	0	B	B1/B3
L2	55559	55	62	345	243	174	190	190	0	B	B1/B3
	55565	55	62	345	243	174	190	190	1	B	B1/B3
	56219	62	81	415	243	175	190	190	0	B	B1/B3
	56220	62	81	415	243	175	190	190	1	B	B1/B3
LB3	55415	54	68	330	274	175	175	175	0	B	B3
	56318	63	81	450	274	175	175	175	0	B	B3
	56420	64	81	450	274	175	175	175	0	B	B3
	56818	68	81	450	274	175	175	175	0	B	B3
	56821	68	81	450	274	175	175	175	0	B	B3
	56828	68	81	450	274	175	175	175	1	B	B3
	57113	71	90	450	274	175	175	175	0	B	B3
	57114	71	90	450	274	175	175	175	1	B	B3
L3	56638	66	81	515	276	174	190	190	0	B	B3
	56640	66	81	515	276	174	190	190	1	B	B3
	57219	72	81	515	274	175	190	190	1	B	B3
	57220	72	81	515	274	175	190	190	0	B	B3
	58033	80	90	450	274	175	190	190	0	B	B3
	58044	80	90	450	274	175	190	190	1	B	B3
	57412	74	90	450	276	174	190	190	0	B	B3
	57413	74	90	450	276	174	190	190	1	B	B3
	57528	75	90	450	276	174	190	190	0	B	B1/B3
L4	58043	80	120	520	314	175	188	188	0	B	B1/B3
	58812	88	120	520	311	175	190	190	0	B	B3
	60018	100	130	600	311	175	190	190	0	B	B3
	60019	100	130	600	311	175	190	190	1	B	B3
L5	58827	88	140	640	352	174	190	190	0	B	B1/B3
	58828	88	140	640	352	174	190	190	1	B	B1/B3
	59512	95	140	640	350	175	190	190	0	B	B3
	60038	100	140	640	352	174	190	190	0	B	B3
JIS B20 (NS40Z)	53520	35	40	220	196	128	200	220	0	B	-
	53522	35	40	220	196	128	200	220	1	B	-
	54026	40	40	220	196	128	200	220	0	B	-
	54027	40	40	220	196	128	200	220	1	B	-

EN STANDARD BATTERY (SMF)

DIN GROUP	TYPE NO.	CAPACITY 20Hr (Ah)	RC (Min.)	CCA	DIMENSION (mm)				CELL LAY-OUT	TERMINAL	HOLD- DOWN
					LENGTH	WIDTH	HEIGHT	T.HEIGHT			
JIS B24 (NS60)	54523	45	53	280	237	128	200	220	0	B	-
	54524	45	53	280	237	128	200	220	1	B	-
	54584	45	53	280	237	128	200	220	0	B	-
	54551	45	53	280	237	128	200	220	1	B	-
JIS D23 (55D23)	56068	60	69	350	230	173	202	224	0	B	-
	56069	60	69	350	230	173	202	224	1	B	-
JIS D26 (N50Z)	56048	60	69	345	263	173	198	218	0	B	-
	56049	60	69	345	263	173	198	218	1	B	-
	57029	72	81	390	263	173	198	218	0	B	-
	57024	72	81	390	263	173	198	218	1	B	-
JIS D31 (N70)	57512	75	90	430	302	174	200	220	0	B	-
	57513	75	90	430	302	174	200	220	1	B	-
	58513	85	100	465	302	174	200	220	0	B	-
	58514	85	100	465	302	174	200	220	1	B	-
	59518	95	122	555	302	174	200	220	1	B	-
	59519	95	122	555	302	174	200	220	0	B	-
JIS E41 (N100)	60026	100	134	600	405	170	200	220	0	B	-
	60035	100	134	600	405	170	200	220	1	B	-
	61017	110	134	600	405	170	200	220	0	B	-

BCI STANDARD BATTERY (SMF)

BCI GROUP	TYPE NO.	CAPACITY 20Hr (Ah)	CCA	RC (Min.)	DIMENSION (mm)				LAY-OUT	TERMINAL	HOLD- DOWN
			SAE		LENGTH	WIDTH	HEIGHT	T.HEIGHT			
24	24-390	50	390	76	257	172	200	220	1	B	B1
	24-460	60	460	94	257	172	200	220	1	B	B1
	24-540	72	540	117	257	172	200	220	1	B	B1
24R	24R-390	50	390	76	257	172	200	220	0	B	B1
	24R-460	60	460	94	257	172	200	220	0	B	B1
	24R-540	72	540	117	257	172	200	220	0	B	B1
24F	24F-390	50	390	76	257	172	200	220	0	B	B1
	24F-460	60	460	94	257	172	200	220	0	B	B1
	24F-540	72	540	117	257	172	200	220	0	B	B1
25	25-650	70	650	117	230	172	200	225	1	B	B1
35	35-520	72	520	117	230	172	180	200	0	B	B1
27	27-540	72	540	117	310	175	204	225	1	B	B1
	27-580	85	580	143	310	175	204	225	1	B	B1
	27-620	95	620	165	310	175	204	225	1	B	B1
	27-800	95	800	165	310	175	204	225	1	B	B1
	27-950	95	950	165	310	175	204	225	1	B	B1
27R	27R-540	72	540	117	310	175	204	225	0	B	B1
	27R-580	85	580	143	310	175	204	225	0	B	B1
	27R-620	95	620	165	310	175	204	225	0	B	B1
	27R-950	95	950	165	310	175	204	225	0	B	B1
27F	27F-540	72	540	117	310	175	204	225	0	B	B1
	27F-580	85	580	143	310	175	204	225	0	B	B1
	27F-620	95	620	165	310	175	204	225	0	B	B1
29H	29H-900	110	900	220	404	171	199	219	1	B	—

BCI GROUP	TYPE NO.	CAPACITY 20Hr (Ah)	CCA	RC (Min.)	DIMENSION (mm)				LAY-OUT	TERMINAL	HOLD-DOWN
			SAE		LENGTH	WIDTH	HEIGHT	T.HEIGHT			
31	31-630	75	630	130	330	172	218	242	1	B/G	—
	31-700	84	700	140	330	172	218	242	1	B/G	—
	31-750	90	750	160	330	172	218	242	1	B/G	—
	31-800	96	800	170	330	172	218	242	1	B/G	—
	31-850	100	850	180	330	172	218	242	1	B/G	—
	31-1000	95	1000	190	330	172	218	242	1	B/G	—
	30H-1000MF	100	1000	190	330	172	218	242	1	D/G	—
	31A(31-850)	105	850	190	330	172	218	242	1	D/G	—
31S	31S-630	75	630	130	330	172	218	242	1	D	—
	31S-700	84	700	140	330	172	218	242	1	D	—
	31S-750	90	750	160	330	172	218	242	1	D	—
	31S-800	96	800	170	330	172	218	242	1	D	—
	31S-850	100	850	180	330	172	218	242	1	D	—
	31S-1000	95	1000	190	330	172	218	242	1	D	—
34	34-625	63	625	106	259	172	180	200	1	B	B1
	34M-850	65	850	88	259	172	180	200	0	B	—
	34MR-850	65	850	88	259	172	180	200	1	B	—
34R	34R-625	63	625	106	259	172	180	200	0	B	B1
	34R-610	70	610	95	259	172	180	200	0	B	—
	34R-800	78	800	106	259	172	180	200	0	B	—
47	47-480	55	480	93	245	175	190	190	0	B	B1
	47-520	60	520	105	245	175	190	190	0	B	B1
48	48-480	54	480	112	275	175	190	190	0	B	B1
	48-570	63	570	123	275	175	190	190	0	B	B1
	48-600	71	600	135	275	175	190	190	0	B	B1
	48-675	75	675	135	275	175	190	190	0	B	—
49	49-680	88	680	150	354	175	190	190	0	B	B1
	49-850	100	850	170	354	175	190	190	0	B	B1
51	51-405	45	405	67	237	127	200	220	1	B	B1
	51-450	50	450	67	237	127	200	220	1	A	—
51R	51R-405	45	405	67	237	127	200	220	0	B	B1
	51R-430	50	430	65	237	127	200	220	1	A	—
	51R-450	50	450	67	237	127	200	220	0	B	—
	51R-450	50	450	67	237	127	200	220	0	B	—
58	58-500	55	500	85	240	175	153	173	1	B	B1
65	65-650MF(65-72SMF)	75	650	136	301	190	170	190	1	B	B1
	65M-1000(41-65MF)	75	1000	136	301	190	170	190	1	B	—
65R	65R-650	75	650	136	301	190	170	190	0	B	B1
75	75-460	45	460	80	230	180	180	180	1	E	B1
	75-550	55	550	90	230	180	180	180	1	E	B1
78	78-550	55	550	98	260	178	182	182	1	E	B1
	78-675	65	675	112	260	178	182	182	1	E	B1
85	85-550	55	550	90	230	172	180	200	0	B	B1
	85B60RMF(22M-700)	55	700	90	230	172	180	200	1	B	—
	85B60LMF(22MR-700)	55	700	90	230	172	180	200	0	B	—
	58-500	55	500	85	230	172	180	200	1	B	—
	58R-500	55	500	85	230	172	180	200	0	B	—
85R(86)	85R-550	55	550	90	230	172	180	200	1	B	B1
90	90-530	55	530	85	242	174	175	175	0	B	B1/B3
91	91-550	58	550	90	277	174	175	175	0	B	B1/B3
92/94R	92-650	80	650	135	315	175	190	190	0	B	B1/B3
	94R-800	90	800	135	315	175	190	190	0	B	
93	93-780	81	780	140	354	174	175	175	0	B	B1/B3
4D	4D-1000	150	1000	255	506	221	210	233	4	B	—
	4D-1300	180	1300	255	506	221	210	233	3	B	—
8D	8D-1200	200	1200	400	515	265	215	238	4	B	—
	8D-1400	220	1400	460	515	265	215	238	4	B	—

AS STANDARD BATTERY (SMF)

MODEL	CAPACITY	RC (Min.)	CCA	DIMENSION (mm)				LAY-OUT	TERMINAL
				LENGTH	WIDTH	HEIGHT	T.HEIGHT		
NS40ZS	36	53	280	195	127	200	220	1	A
NS60S	45	71	350	240	129	200	220	1	B
NS50ZS	50	90	450	230	174	180	200	1	B
55D23ZS	60	90	430	230	173	200	220	1	B
NS70S	70	112	500	258	173	200	220	1	B
NS70LS	70	112	500	258	173	200	220	0	B
NX120-7S	80	144	600	304	173	198	218	1	B
NX120-7LS	80	144	600	304	173	198	218	0	B
N100S	100	200	750	402	172	230	223	1	B
N120S	120	280	850	509	180	195	220	3	B
N150S	150	326	820	517	221	195	228	3	B
N150LS	150	360	850	517	221	195	228	4	B
N200S	200	385	950	506	264	200	232	3	B
N200LS	200	410	1000	506	264	200	232	4	B
DIN44S	44	81	415	207	174	173	173	0	B
DIN44LS	44	81	415	207	174	188	188	1	B
DIN55S	55	81	415	243	174	175	175	0	B
DIN55LS	55	100	500	243	174	190	190	1	B
DIN66S	66	90	450	276	174	175	175	0	B
DIN66LS	66	108	530	276	174	190	190	1	B
DIN77S	77	130	600	314	175	188	188	0	B
DIN77LS	77	130	600	314	175	188	188	1	B
DIN100S	100	182	700	352	174	190	190	0	B

SA STANDARD BATTERY (SMF)

GROUP NO.	MODEL	CAPACITY	RC (Min.)	CCA	DIMENSION (mm)				LAY-OUT	TERMINAL
					LENGTH	WIDTH	HEIGHT	T.HEIGHT		
B20	615MF	35	45	250	195	127	200	200	1	A
	616MF	35	45	250	195	127	200	200	0	A
LB1	618MF	36	51	290	207	174	173	173	0	B
B24	634MF	45	71	350	240	129	200	220	1	B
	636MF	45	71	350	240	129	200	220	0	B
D23	610MF	45	81	415	230	174	200	220	1	B
	621MF	55	69	350	230	173	200	220	0	B
	622MF	55	69	350	230	173	200	220	1	B
L1	612MF	50	81	390	207	174	188	188	0	B
LB2	628MF	50	62	330	243	174	175	175	0	B
L2	643MF	55	81	415	243	174	190	190	1	B
	646MF	55	81	415	243	174	190	190	0	B
LB3	651MF	66	90	450	276	174	175	175	0	B
L3	652MF	66	90	450	276	174	190	190	1	B
D26	638MF	70	100	465	258	173	200	220	0	B
	639MF	70	100	465	258	173	200	220	1	B
D31	650MF	80	112	500	258	173	200	220	0	B
L4	668MF	80	130	600	314	175	188	188	0	B
	669MF	80	130	600	314	175	188	188	0	B
31	674JMF	105	182	650	325	174	220	251	1	Dual
F51	683MF	120	218	780	509	180	195	220	3	B
G51	689MF	150	280	850	517	221	195	228	3	B
	695MF	180	330	1000	517	221	195	228	3	B
G52	695MF	180	330	1000	517	221	195	228	3	B
H52	695MF	200	365	1000	506	264	200	232	3	B

DIN GROUP	TYPE NO.	CAPACITY 20Hr (Ah)	RC (Min.)	CCA	DIMENSION (mm)				LAY-OUT	TERMINAL	HOLD-DOWN
					LENGTH	WIDTH	HEIGHT	T.HEIGHT			
D4	62034	120	173	680	505	184	194	215	3	B	-
	62038	120	173	680	505	184	194	215	4	B	-
	63530	135	173	680	509	180	195	220	4	B	-
	64020	140	190	700	509	180	195	220	4	B	-
	64028	140	190	700	509	180	195	220	4	B	-
D5	65011	150	218	780	505	220	192	214	3	B	-
	65012	150	218	780	505	220	192	214	4	B	-
	67043	170	218	780	505	220	192	214	3	B	-
	67044	170	218	780	505	220	192	214	4	B	-
	67018	170	248	800	517	221	195	228	4	B	-
	68022	180	248	800	505	220	192	214	3	B	-
	68029	180	248	800	505	220	192	214	4	B	-
	68032	180	248	800	517	221	195	228	4	B	-
D6	68039	180	248	800	515	265	215	235	3	B	-
	68040	180	248	800	506	264	200	232	3	B	-
	70027	200	300	900	506	264	200	232	3	B	-
	70029	200	300	900	506	264	200	232	4	B	-
	71014	210	300	900	515	265	215	235	3	B	-
	71015	210	300	900	515	265	215	235	3	B	-
	72511	225	330	1000	515	265	215	235	3	B	-
	73010	230	365	1000	506	264	200	232	3	B	-
	73011	230	365	1000	506	264	200	232	4	B	-

AGM START STOP BATTERIES

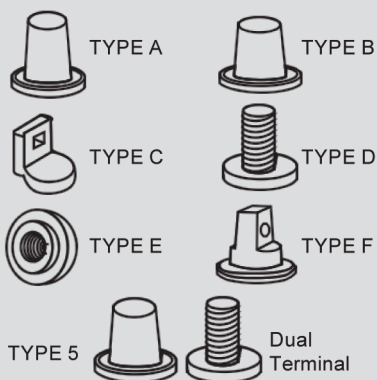
MODEL	CAPACITY 20Hr (Ah)	CCA -18°C	RC (Min.)	DIMENSION (mm)				LAY-OUT	TERMINAL
				LENGTH	WIDTH	HEIGHT	T.HEIGHT		
AGML2	12V60AH	700	100	242	274	190	190	0	B
AGML3	12V70AH	820	120	278	176	192	192	0	B
AGML4	12V80AH	920	140	315	175	191	191	0	B
AGML5	12V95AH	1020	164	355	174	190	190	0	B

EFB START STOP BATTERIES

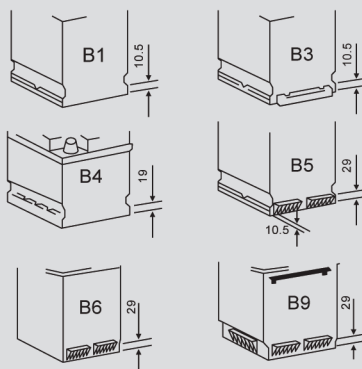
MODEL	CAPACITY 20Hr (Ah)	CCA -18°C	RC (Min.)	DIMENSION (mm)				LAY-OUT	TERMINAL
				LENGTH	WIDTH	HEIGHT	T.HEIGHT		
EFBL2	12V60AH	720	100	242	174	190	190	0	B
EFBL3	12V70AH	825	120	280	175	190	190	0	B
EFBQ-85	12V70AH	640	100	230	172	187	212	1	B
EFBS-95	12V80AH	690	110	260	172	202	227	0	B

TERMINAL AND HOLD DOWN FOR THE AUTOMOTIVE BATTERY

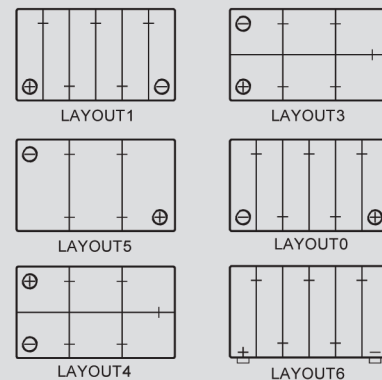
TERMINAL TYPE



HOLD DOWNS



CELL LAYOUT



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