

**CLEAN ENERGY
FOR THE EARTH
ADVANCED ENERGY
FOR THE FUTURE**

TARGET
Automotive Battery



Better Performance & Longer Lifespan

 **FOR JAPANESE VEHICLES(JIS CMF series)**

JIS Group	JIS No.		Capacity(AH)			MAX. Overall Dimension(mm)				Lay-Out	Terminal	Base Hold Down
	New	Old	20Hr(Ah)	CCA(Amps)	RC(MIN)	L	W	H	TH			
B19	42B19R	NS40Z	40	332	52	187	127	199	219	1	B	
	42B19L	NS40ZL	40	332	52	187	127	199	219	0	B	
B24	50B24R	N40	40	370	60	236	128	200	220	1	A	
	50B24L	N40L	40	370	60	236	128	200	220	0	A	
	55B24R	NS60(S)/L NX110-S6	45	433	80	236	128	200	220	1	B	
	55B24L		45	433	80	236	128	200	220	0	B	
	55B24RS		45	433	80	236	128	200	220	1	A	
	55B24LS		45	433	80	236	128	200	220	0	A	
D23	65D23R		60	450	85	230	168	200	220	1	A	
	65D23L		60	450	85	230	168	200	220	0	A	
	75D23R		65	550	110	230	168	200	220	1	A	
	75D23L		65	550	110	230	168	200	220	0	A	
D26	48D26R	N50	50	350	81	260	168	200	220	1	A	
	48D26L	N50L	50	350	81	260	168	200	220	0	A	
	55D26R	N50Z	60	500	100	260	168	200	220	1	A	
	55D26L	N50ZL	60	500	100	260	168	200	220	0	A	
	85D26R	NS70	70	630	133	260	168	200	220	1	A	
	85D26L	NS70L	70	630	133	260	168	200	220	0	A	
D31	65D31R	N70	70	600	120	301	172	200	220	1	A	
	65D31L	N70L	70	600	120	301	172	200	220	0	A	
	105D31R	NX120-7	90	750	165	301	172	200	220	1	A	
	105D31L	NX120-7L	90	750	165	301	172	200	220	0	A	
E41	CMF100R		100	750	175	324	172	204	224	1	A	B1
	CMF100L		100	750	175	324	172	204	224	0	A	B1
	CMFN100	115E41R	100	750	175	403	173	209	231	1	A	
	CMFN100L	115E41L	100	750	175	403	173	209	231	0	A	
F51	CMF120	130F51	120	850	230	503	182	208	230	4	A	
	CMF120L		120	850	230	503	182	208	230	3	A	
	CMF140	140F51	140	950	250	503	182	208	230	4	A	
	CMF140L		140	950	250	503	182	208	230	3	A	
G51	CMF150	155G51	150	1000	300	503	216	208	230	4	A	
	CMF150L		150	1000	300	503	216	208	230	3	A	
	CMF170	165G51	170	1050	320	503	216	208	230	4	A	
	CMF170L		170	1050	320	503	216	208	230	3	A	
H52	CMF200	190H52	200	1100	430	503	261	217	239	4	A	
	CMF200L		200	1100	430	503	261	217	239	3	A	
	CMF220		220	1200	470	503	261	217	239	4	A	

Notice : The Specifications are subject to changes with or without notice

FOR EUROPEAN VEHICLES (DIN CMF series)

DIN Group	Type No. (DIN)	Capacity				MAX. Overall Dimension(mm)				Lay-Out	Terminal	Base Hold down	Equivalent Type
		20Hr (AH)	RC (Mins)	CCA (A)		L	W	H	TH				
				DIN	SAE								
LB1	53624	36	60	175	330	207	174	174	174	0	A	B1	
	53638	36	60	175	330	207	174	174	174	1	A	B1	
	53518	36	60	175	330	207	174	174	174	0	A	B13	
	53519	36	60	175	330	207	174	174	174	1	A	B13	
	54316	43	70	210	380	207	174	174	174	0	A	B13	
L1	54459	44	75	210	380	207	174	189	189	0	A	B13	
	54464	44	75	210	380	207	174	189	189	1	A	B13	
	55066	50	86	230	415	207	174	189	189	0	A	B13	
LB2	54519	45	80	240	430	242	174	174	174	0	A	B4	
	55040	50	85	270	490	242	174	174	174	0	A	B13	
	55457	54	94	280	500	242	174	174	174	0	A	B13	
	55458	54	94	280	500	242	174	174	174	1	A	B13	
L2	55559	55	90	255	450	242	174	189	189	0	A	B13	
	55565	55	90	255	450	242	174	189	189	1	A	B13	
	56219	62	100	280	500	242	174	189	189	0	A	B13	
	56220	62	100	280	500	242	174	189	189	1	A	B13	
LB3	55415	54	94	280	500	278	174	174	174	0	A	B13	
	55414	54	94	280	500	278	174	174	174	0	A	B4	
	56318	63	110	310	580	278	174	174	174	0	A	B13	
	56320	63	110	310	580	278	174	174	174	1	A	B13	
	57113	71	115	330	610	278	174	174	174	0	A	B13	
L3	56638	66	110	300	550	278	174	189	189	0	A	B13	
	56640	66	110	300	550	278	174	189	189	1	A	B13	
	57412	74	120	350	650	277	174	189	189	0	A	B13	
	57413	74	120	350	650	277	174	189	189	1	A	B13	
LB4	57539	75	125	340	640	314	174	174	174	0	A	B13	
	58014	80	135	380	730	314	174	174	174	0	A	B13	
LB5	58515	85	140	380	730	351	173	174	174	0	A	B13	
L5	58827	88	150	395	750	351	173	189	189	0	A	B13	
	58828	88	150	395	750	351	173	189	189	1	A	B13	
	60038	100	165	450	800	351	173	189	189	0	A	B13	
	62034	120	230	450	850	503	182	193	214	3	A	-	
62038	120	230	450	850	503	182	193	214	4	A	-		
64020	140	250	500	950	503	182	193	214	3	A	-		
64317	143	300	540	1000	503	216	193	214	3	A	-		
64318	143	300	540	1000	503	216	193	214	4	A	-		
67018	170	320	600	1050	503	216	193	214	3	A	-		
70018	200	430	650	1100	503	216	193	214	3	A	-		
70019	200	430	650	1100	503	216	193	214	4	A	-		
70027	200	430	650	1100	503	261	217	239	3	A	-	CMF200L	
70029	200	430	650	1100	503	261	217	239	4	A	-	CMF200	
53520	35	52	150	340	187	127	199	219	0	B	-	42B19L	
53522	35	52	150	340	187	127	199	219	1	B	-	42B19R	
54523	45	80	190	430	236	128	200	220	0	A	-	55B24LS	
54524	45	80	190	430	236	128	200	220	1	A	-	55B24RS	
54551	45	80	190	430	236	128	200	220	1	B	-	55B24R	
54584	45	80	190	430	236	128	200	220	0	B	-	55B24L	
54577	45	70	190	430	217	134	200	220	0	A	B1		
54578	45	70	190	430	217	134	200	220	0	B	B1		
54579	45	70	190	430	217	134	200	220	1	A	B1		
54580	45	70	190	430	217	134	200	220	1	B	B1		
56068	60	110	235	550	230	168	200	220	0	A	-	75D23L	
56069	60	110	235	550	230	168	200	220	1	A	-	75D23R	
57512	75	120	340	600	301	172	200	220	0	A	-	65D31L	
57513	75	120	340	600	301	172	200	220	1	A	-	65D31R	
59615	96	175	380	750	324	172	204	224	0	A	B1	CMF100L	
59616	96	175	380	750	324	172	204	224	1	A	B1	CMF100R	
60016	100	175	380	750	403	173	209	231	0	A	-	CMFN100L	

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FOR AMERICAN VEHICLES (BCI CMF series)

BCI Group Size	Part NO.	Cranking Performance at 0° F(Amps)	Reserve Capacity at 80° F(MIN)	MAX. Overall Dimension(mm)				Cell Lay-Out	Terminal	Base Hold Down	Equivalent type
				Length	Width	Height	T. Height				
26/70	26/70-450	450	72	204	179	180	200	10,17	DUAL	B1	
	26/70-550	550	85	204	179	180	200	10,17	DUAL	B1	
34/78	34/78-560	560	95	260	179	180	200	10.17	DUAL	B1	
	34/78-700	700	110	260	179	180	200	10.17	DUAL	B1	
78	78-560	560	95	260	179	180	180	17	H	B1	
	78-700	700	110	260	179	180	180	17	H	B1	
75	75-520	520	80	230	179	180	180	17	H	B1	
	75-630	630	93	230	179	180	180	17	H	B1	
75/86	75/86-520	520	80	230	179	180	200	10.17	DUAL	B1	
	75/86-630	630	93	230	179	180	200	10.17	DUAL	B1	
65	65-670	670	105	289	189	172	192	10	A	B1	
	65-770	770	131	289	189	172	192	10	A	B1	
31	31S-750	750	170	330	171	217	238	18	G	-	
	31P-750	750	170	330	171	217	238	18	A	-	
	31S-850	850	185	330	171	217	238	18	G	-	
	31P-850	850	185	330	171	217	238	18	A	-	
58	58-500	500	60	241	182	157	177	10/11	A	B8	
	58-560	560	78	241	182	157	177	10/11	A	B8	
24	24-350	350	81	260	168	200	220	1	A		48D26R
	24-500	500	100	260	168	200	220	1	A		55D26R
	24-630	630	133	260	168	200	220	1	A		85D26R
24R	24R-350	350	81	260	168	200	220	0	A		48D26L
	24R-500	500	100	260	168	200	220	0	A		55D26L
	24R-630	630	133	260	168	200	220	0	A		85D26L
25	25-450	450	85	230	168	200	220	1	A		65D23R
	25-550	550	110	230	168	200	220	1	A		75D23R
35	35-450	450	85	230	168	200	220	0	A		65D23L
	35-550	550	110	230	168	200	220	0	A		75D23L
26	26-425	425	85	206	172	184	204	10	A	B1	CMF50AR
26R	26R-425	425	85	206	172	184	204	11	A	B1	CMF50AL
27	27-750	750	165	301	172	200	220	10	A	B1	CMF90AR
27R	27R-750	750	165	301	172	200	220	11	A	B1	CMF90AL
51	51	410	70	236	128	200	220	1	A		55B24R
51R	51R	410	70	236	128	200	220	0	A		55B24L
47	47-450	450	90	242	173	188	188	15	A	B13	CMF55559
	47-500	500	100	242	173	188	188	15	A	B13	CMF56219
48	48-550	550	110	275	173	188	188	15	A	B13	CMF56638
	48-650	650	120	275	173	188	188	15	A	B13	CMF57412
49	49-750	750	160	354	173	188	188	15	A	B13	CMF58827
	49-800	800	180	354	173	188	188	15	A	B13	CMF60038
4D	4D-1000	1000	300	503	216	208	230	9	A		CMF150
	4D-1050	1050	320	503	216	208	230	9	A		CMF170
8D	8D-1100	1100	430	503	261	217	239	9	A		CMF200

CMF series FOR HYUNDAI&KIA MOTORS

PART NO.	Capacity			MAX. Overall Dimension(mm)				Cell Lay-Out	Terminal	B/H	REMARK
	20Hr(Ah)	CCA(Amps)	RC(Mins)	L	W	H	TH				
CMF40AR	40	332	52	187	127	199	219	1	B	W1	
CMF40AL	40	332	52	187	127	199	219	0	B	W1	
CMF50AR	50	450	85	206	172	184	204	1	A	B1	
CMF50AL	50	450	85	206	172	184	204	0	A	B1	
CMF60AR	60	500	95	230	172	184	204	1	A	B1	
CMF60AL	60	500	95	230	172	184	204	0	A	B1	
CMF80R	80	630	125	260	175	200	220	1	A	B1	
CMF80L	80	630	125	260	175	200	220	0	A	B1	
105D31R	90	750	165	301	172	200	220	1	A	B1	
105D31L	90	750	165	301	172	200	220	0	A	B1	
CMF100D	100	800	190	263	247	206	225	0	A	-	
AGM60	60	640	100	242	173	188	188	0	A	B13	DIN L2
AGM70	70	760	120	275	173	188	188	0	A	B13	DIN L3

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 **FOR JAPANESE VEHICLES (JIS Conventional series)**

JIS Group	JIS No.		Capacity		-18°C CCA	RC	Dimension(mm)				Lay-Out	Terminal	Weight		Remarks
	New	Old	20Hr	5Hr			L	W	H	TH			W/O Acid	Acid volume	
A19	30A19R	12N24-4	30	24	230	42	186	126	160	177	1	C	5.8	1.8	
	30A19L	12N24-3	30	24	230	42	186	126	160	177	0	C	5.8	1.8	
B20	32B20RS	NS40S	35	26	250	52	196	128	194	216	1	A	6.9	2.4	
	32B20LS	NS40SL	35	26	250	52	196	128	194	216	0	A	6.9	2.4	
	36B20R	NS40	35	28	250	52	196	128	194	216	1	B	6.9	2.4	
	36B20L	NS40L	35	28	250	52	196	128	194	216	0	B	6.9	2.4	
C24	32C24R	N40	40	32	280	72	234	132	197	219	1	A	7.6	2.9	
	32C24L	N40L	40	32	280	72	234	132	197	219	0	A	7.6	2.9	
B24	46B24R	NS60	45	36	360	80	236	128	200	220	1	B	8.8	2.9	
	46B24L	NS60L	45	36	360	80	236	128	200	220	0	B	8.8	2.9	
	46B24RS	NS60S	45	36	360	80	236	128	200	220	1	A	8.8	2.9	
	46B24LS	NS60SL	45	36	362	80	236	128	200	220	0	A	8.8	2.9	
D26	48D26R	N50	50	40	360	90	258	168	202	222	1	A	9.5	4.8	PH
	48D26L	N50L	50	40	360	90	258	168	202	222	0	A	9.5	4.8	PH
	55D26R	N50Z	60	48	440	110	258	168	202	222	1	A	11.3	4.5	PH
	55D26L	N50ZL	60	48	440	110	258	168	202	222	0	A	11.3	4.5	PH
	85D26R	NS110-5 NS70	70	60	520	120	258	168	202	222	1	A	13.0	4.3	
	85D26L		70	60	520	120	258	168	202	222	0	A	13.0	4.3	
D31	65D31R	N70	70	56	520	140	301	172	202	223	1	A	13.3	5.7	PH
	65D31L	N70L	70	56	520	140	301	172	202	223	0	A	13.3	5.7	PH
	75D31R	N70Z	75	60	580	155	301	172	202	223	1	A	13.9	5.4	PH
	75D31L	N70ZL	75	60	580	155	301	172	202	223	0	A	13.9	5.4	PH
	105D31R	NX120-7	90	72	650	159	302	172	202	223	1	A	15.1	5.6	PH
	105D31L	NX120-7L	90	72	650	159	302	172	202	223	0	A	15.1	5.6	PH
E41	105E41R	N100	100	80	720	190	403	173	209	231	1	A	17.5	7.1	H
	105E41L	N100L	100	80	720	190	403	173	209	231	0	A	17.5	7.1	H
F51	115F51	N120A	110	88	720	210	503	182	212	234	4	A	20.2	9.4	H
	130F51	N120	120	96	750	230	503	182	212	234	4	A	22.1	9.2	H
G51	145G51	N135	135	108	820	290	508	221	211	232	4	A	24.3	11.9	H
	155G51	N150	150	120	900	310	508	221	211	232	4	A	26.0	11.4	H
H52		N200A	185	148	1000	390	508	271	217	239	4	A	32.5	13.9	H
	190H52	N200	200	160	1200	430	508	271	217	239	4	A	34.2	14.1	H
		6TN	100	80	680	182	271	264	206	229	2	A	18.7	6.8	H
HEAVY DUTY TRUCK	115E41	NS120	110	88	780	212	405	173	208	230	0/1	A	19.90	8.78	H
	130E41	NX200	115	92	820	230	405	173	208	230	0/1	A	20.90	7.03	H
	145F51	NS150	140	112	950	280	503	182	213	257	3/4	A	24.20	11.39	H,PH
	150F51	NT200-12	130	108	920	270	503	182	213	257	3/4	A	23.40	11.48	H,PH
	170F51	NX250-12	150	120	1060	305	503	182	213	257	4	A	26.00	11.52	H,PH
	165G51	NS200	170	136	1100	358	509	221	213	257	3/4	A	29.70	14.03	H,PH
	195G51	NX300-15	175	140	1160	365	509	221	213	257	3/4	A	30.50	13.94	H,PH
	245H52	NX400-20	220	176	1315	490	516	273	220	264	3/4	A	37.60	18.67	PH

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 **FOR EUROPEAN VEHICLES (DIN Conventional series)**

Type No. (DIN)	Capacity 20Hr(AH)	-18°C CCA (Amps)	MAX. Overall Dimension(mm)				Lay-Out	Terminal	Base Hold- Downs	Weight		Remarks
			L	W	H	TH				W/O Acid	Acidvolu me	
53520	35	150	196	128	194	216	0	B	-	6.9	2.4	
53522	35	150	196	128	194	216	1	B	-	6.9	2.4	
54459	44	210	208	175	194	194	0	A	B3	9.0	3.1	M
54464	44	210	208	175	194	194	1	A	B3	9.0	3.1	M
54519	45	220	240	175	175	175	0	A	B1	9.7	3.2	M
54523	45	180	236	128	200	220	0	A	-	8.7	2.9	
54524	45	180	236	128	200	220	1	A	-	8.7	2.9	
54551	45	180	236	128	200	220	1	B	-	8.7	2.9	
54584	45	180	236	128	200	220	0	B	-	8.7	2.9	
55559	55	255	241	173	189	189	0	A	B3	10.8	3.8	M
55565	55	255	241	173	189	189	1	A	B3	10.8	3.8	M
56219	62	280	241	173	189	189	0	A	B3	10.8	3.8	M
56220	62	280	241	173	189	189	1	A	B3	10.8	3.8	M
56048	60	235	265	168	202	222	0	A	B9	11.3	4.5	
56049	60	235	265	168	202	222	1	A	B9	11.3	4.5	
56318	63	300	287	175	175	175	0	A	B4	12.8	4.1	M
56638	66	300	300	175	190	190	0	A	B3	12.6	4.2	M
57024	70	315	265	168	202	222	1	A	B9	13.0	4.3	
57029	70	315	265	168	202	222	0	A	B9	13.0	4.3	
57113	71	400	280	174	174	174	0	A	B3	13.2	3.75	M
57220	72	420	300	175	190	190	0	A	B3	14.9	3.5	M
57512	75	320	301	172	202	223	0	A	-	13.3	5.7	
57513	75	320	301	172	202	223	1	A	-	13.3	5.7	
58827	88	395	377	175	190	190	1	A	-	16.2	5.4	M
59017	90	260	330	173	207	228	0	A	-	15.3	5.7	
59018	90	260	330	173	207	228	1	A	-	15.3	5.7	
59218	92	450	377	175	190	190	0	A	B3	16.8	5.5	M
59615	96	360	330	173	207	228	0	A	-	17.0	5.7	
59616	96	360	330	173	207	228	1	A	-	17.0	5.7	
60013	100	440	270	265	205	227	2	A	-	18.7	6.8	H
60016	100	360	403	173	209	231	0	A	-	17.4	7.1	H
62034	120	420	515	190	193	214	3	A	-	22.1	9.6	H
62038	120	420	515	190	193	214	4	A	-	22.1	9.6	H
63588	135	420	508	221	211	232	4	A	-	24.2	11.6	H
67018	170	600	514	222	193	214	3	A	-	29.4	11.6	H
68021	180	570	508	271	217	239	4	A	-	30.8	13.6	H
70027	200	650	513	271	215	239	3	A	-	34.7	15.31	H
70029	200	650	513	271	215	239	4	A	-	34.7	15.31	H

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FOR AUSTRALIAN VEHICLES

TYPE No.	CCA (Amps)	RC (MIN)	MAX. Overall Dimension(mm)				Lay-Out	Terminal	Weight with Acid (KGS)	Equivalent type
			L	W	H	TH				
42B19LDF	332	52	187	127	199	219	0	DF	9.6	
MF43	360	60	236	128	170	195	0	DF	11.2	

6 Volt GOLF CAR, Electric Vehicle & Motive Power Batteries (3 Cells)

BCI Group Size	Part NO.	Cranking Performance at 0° F(Amps)	Reserve Capacity at 80° F(MIN)	MAX. Overall Dimension(mm)				Cell Lay-Out	Terminal	Weight W/O Acid(KGS)	Acid Volume (Approx. l)	Remarks
				Length	Width	Height	T. Height					
GC2	GC2-57	220	100	258	178	245	277	19	1	22.5	5.1	H

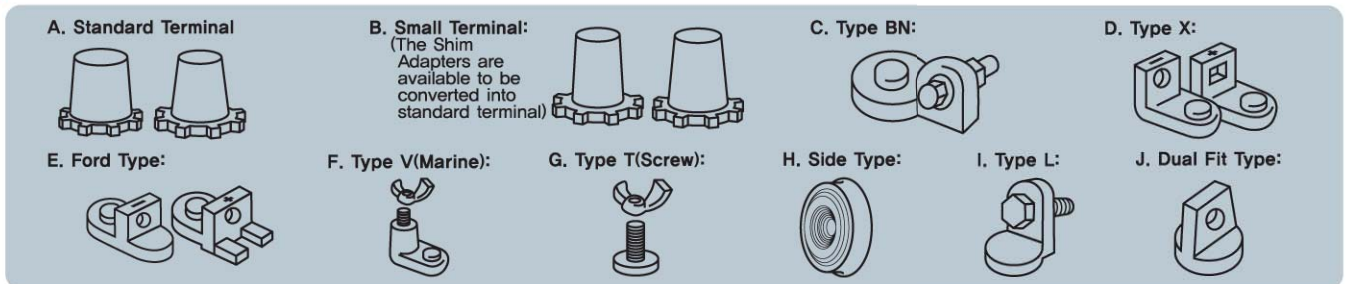
EB BATTERY 12 Volt

Battery Type	Part NO.	Capacity at 5HR Rate(AH)	MAX. Overall Dimension(mm)				Cell Lay-Out	Terminal	Weight With Acid(KGS)	Remarks
			Length	Width	Height	T. Height				
EB	35	35	236	128	200	233	1	I	13.9	
		35	236	128	200	220	1	A	13.7	
	65	65	301	172	202	236	1	I	24.5	PH
		65	301	172	202	223	1	A	24.4	PH
	100	100	405	173	211	246	1	I	35.4	PH
		100	405	173	211	241	1	A	35.3	PH
	120	120	503	184	213	257	3	I	41.7	PH
		120	503	184	213	257	3	A	41.6	PH
	140	140	509	222	213	257	3	I	49.40	PH
		140	509	222	213	257	3	A	49.30	PH

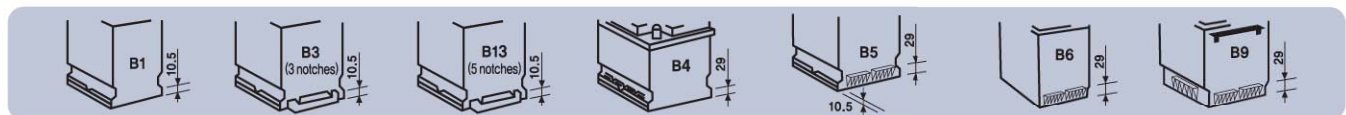
Subject to changes without notice

- ALL Batteries are made of Polypropylene Container Cover.
- Remarks: H-With Carrying Rope Handle PH-With Fixed Plastic Handle on the Cover
M-Cover with Central Ventilation N-Built-in Indicator

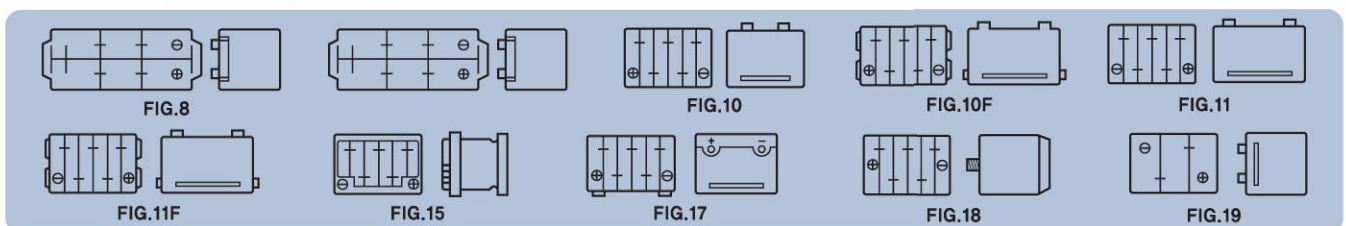
Terminal



Base Hold-Down



BCI Assembly Numbers, Cell Lay-out



Cell Lay-out



Notice : The Specifications are subject to changes with or without notice

BATTERIES suitable

- FOR JAPANESE VEHICLES(JIS CMF)
- FOR EUROPEAN VEHICLES (DIN CMF)
- FOR AMERICAN VEHICLES (BCI CMF)

- FOR AUSTRALIAN VEHICLES
- FOR JAPANESE VEHICLES (JIS Conventional)
- FOR EUROPEAN VEHICLES (DIN Conventional)



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