



HYUNDAI SUNGWOOL
SOLITE

Power Creator
Hyundai Sungwoo Solite



Battery We Consider High-Tech for Tomorrow



JOURNEY of HYUNDAI SUNGWO SOLITE

- | | | | |
|----------|---|----------|--|
| 1979 FEB | Kyungwon Industry CO., Ltd, founded | 2003 NOV | Acquired ISO/TS16949 & ISO14001 certification |
| 1981 FEB | Appointed as an official supplier of Hyundai Motor Company | 2009 JAN | Renamed as Sungwoo Automotive Co., Ltd. |
| 1982 JUN | Acquired KS certification for automotive lead-acid batteries | 2011 APR | Tokyo branch established |
| 1987 NOV | Awarded " \$ 10 million Export Tower Award" | 2013 MAY | Renamed as Hyundai Sungwoo Automotive Korea Co., Ltd. |
| 1992 AUG | Central Technology Research Center founded | 2015 MAR | Expanded in-house production capabilities |
| 1993 NOV | "Jointly developed storage batteries for electric vehicles (Technical partnership with Ovonic)" | 2015 MAY | Renamed as Hyundai Sungwoo Solite Co., Ltd. |
| 1994 NOV | Achieved ISO9001 certification | 2016 JUL | Awarded "The Proud the Most Valuable Product" for 3 consecutive years since 2014 presented by Korea Management Association |
| 1994 DEC | Acquired UL certification for MF stationary lead-acid batteries | 2019 MAR | "Awarded ""Brand Star"" , Korea's NO.1 valued brand among automotive batteries based on BSTI (Brandstock Top Index)" |
| 1997 NOV | Constructed battery plant in Gyeongju | 2019 APR | Awarded "Kotler Awards" in marketing excellence for sports marketing |
| 2000 JAN | Renamed as Hyundai Enercell Co., Ltd. | 2020 FEB | Awarded "Korea's No. 1 for Brand Value" in automotive battery category for 2 consecutive years |
| 2000 JUN | Sungwoo USA Corp. established | 2020 SEP | Awarded "Brand of the Year, 2020" in automotive battery presented by Korea Consumer Forum" |
| 2000 OCT | Acquired QS9000 certification | | |

Certificates



KS C 8504



IATF 16949



ISO 9001



ISO 14001



ISO 22301



ISO 45001



For Japanese Vehicles

JIS CMF Series



JIS Group	JIS No.		Capacity	CCA (SAE)	RC (Min.)	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
	New	Old	20Hr (Ah)			L	W	H	TH			
B19	40B19R	NS40Z	35	330	54	187	127	199	219	1	B	B0/W1
	40B19L	NS40ZL	35	330	54	187	127	199	219	0	B	B0/W1
	42B19R		38	360	60	187	127	199	219	1	B	B0/W1
	42B19L		38	360	60	187	127	199	219	0	B	B0/W1
	50B19R		40	370	63	187	127	199	219	1	B	B0/W1
	50B19L		40	370	63	187	127	199	219	0	B	B0/W1
B24	50B24R	N40	40	370	65	236	128	200	220	1	B	B0
	50B24L	N40L	40	370	65	236	128	200	220	0	B	B0
	50B24RS	N40S	40	370	65	236	128	200	220	1	A	B0
	50B24LS	N40LS	40	370	65	236	128	200	220	0	A	B0
	55B24R	NS60(S)/L NX110-S6(S)/L	45	440	75	236	128	200	220	1	B	B0
	55B24L		45	440	75	236	128	200	220	0	B	B0
	55B24RS		45	440	75	236	128	200	220	1	A	B0
	55B24LS		45	440	75	236	128	200	220	0	A	B0
	65B24R		50	470	85	236	128	200	220	1	B	B0
	65B24L		50	470	85	236	128	200	220	0	B	B0
	65B24RS		50	470	85	236	128	200	220	1	A	B0
	65B24LS		50	470	85	236	128	200	220	0	A	B0
	CMF50AR		50	450	85	206	172	184	204	1	A	B1
	CMF50AL		50	450	85	206	172	184	204	0	A	B1
	CMF60AR		60	470	95	230	172	184	204	1	A	B1
	CMF60AL		60	470	95	230	172	184	204	0	A	B1
D20	50D20R		50	450	90	206	172	200	220	1	A	B1
	50D20L		50	450	90	206	172	200	220	0	A	B1
	60D20R		60	550	95	206	172	200	220	1	A	B1
	60D20L		60	550	95	206	172	200	220	0	A	B1

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JIS Group	JIS No.		Capacity	CCA (SAE)	RC (Min.)	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
	New	Old	20Hr (Ah)			L	W	H	TH			
D23	65D23R		60	450	90	230	172	200	220	1	A	B0/B1
	65D23L		60	450	90	230	172	200	220	0	A	B0/B1
	75D23R		65	550	110	230	172	200	220	1	A	B0/B1
	75D23L		65	550	110	230	172	200	220	0	A	B0/B1
	95D23R		68	580	115	230	172	200	220	1	A	B0/B1
	95D23L		68	580	115	230	172	200	220	0	A	B0/B1
D26	40D26R		45	350	80	260	172	200	220	1	A	B0/B1
	40D26L		45	350	80	260	172	200	220	0	A	B0/B1
	48D26R	N50	50	450	95	260	172	200	220	1	A	B0/B1
	48D26L	N50L	50	450	95	260	172	200	220	0	A	B0/B1
	55D26R	N50Z	60	500	110	260	172	200	220	1	A	B0/B1
	55D26L	N50ZL	60	500	110	260	172	200	220	0	A	B0/B1
	65D26R		65	550	115	260	172	200	220	0	A	B0/B1
	65D26L		65	550	115	260	172	200	220	1	A	B0/B1
	85D26R	NS70	70	620	130	260	172	200	220	1	A	B0/B1
	85D26L	NS70L	70	620	130	260	172	200	220	0	A	B0/B1
	95D26R		74	640	135	260	172	200	220	1	A	B0/B1
	95D26L		74	640	135	260	172	200	220	0	A	B0/B1
	105D26R		78	650	140	260	172	200	220	1	A	B0/B1
	105D26L		78	650	140	260	172	200	220	0	A	B0/B1
D31	60D31R		60	550	115	301	172	200	220	1	A	B0/B1
	60D31L		60	550	115	301	172	200	220	0	A	B0/B1
	65D31R	N70	70	600	130	301	172	200	220	1	A	B0/B1
	65D31L	N70L	70	600	130	301	172	200	220	0	A	B0/B1
	95D31R		80	660	150	301	172	200	220	1	A	B0/B1
	95D31L		80	660	150	301	172	200	220	0	A	B0/B1
	105D31R	NX120-7	90	750	160	301	172	200	220	1	A	B0/B1
	105D31L	NX120-7L	90	750	160	301	172	200	220	0	A	B0/B1
	115D31R		92	760	165	301	172	200	220	1	A	B0/B1
	115D31L		92	760	165	301	172	200	220	0	A	B0/B1
	125D31R		95	780	170	301	172	200	220	1	A	B0/B1
	125D31L		95	780	170	301	172	200	220	0	A	B0/B1
	CMF100R		100	750	175	325	172	203	223	1	A	B1
	CMF100L		100	750	175	325	172	203	223	0	A	B1
E41	CMFN100	115E41R	100	780	175	403	173	209	231	1	A	B0
	CMFN100L	115E41L	100	780	175	403	173	209	231	0	A	B0
F51	CMF120	130F51	120	850	230	503	182	208	230	4	A	B0
	CMF120L		120	850	230	503	182	208	230	3	A	B0
	CMF140	140F51	140	950	250	503	182	208	230	4	A	B0
	CMF140L		140	950	250	503	182	208	230	3	A	B0
G51	CMF150	155G51	150	1000	300	503	216	208	230	4	A	B0
	CMF150L		150	1000	300	503	216	208	230	3	A	B0
	CMF170	165G51	170	1050	320	503	216	208	230	4	A	B0
	CMF170L		170	1050	320	503	216	208	230	3	A	B0
H52	CMF200	190H52	200	1100	430	503	261	217	239	4	A	B0
	CMF200L		200	1100	430	503	261	217	239	3	A	B0
	CMF220	245H52	220	1200	470	503	261	217	239	4	A	B0
	CMF220L		220	1200	470	503	261	217	239	3	A	B0

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For European Vehicles

DIN CMF Series



DIN Group	Type No. (DIN)	Capacity	RC (Min.)	EN (CCA)	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
		20Hr (Ah)			L	W	H	TH			
LB1	CMF53624	36	52	330	208	174	174	174	0	A	B1
	CMF53638	36	52	330	208	174	174	174	1	A	B1
	CMF53518	35	52	330	208	174	174	174	0	A	B13
	CMF53519	35	52	330	208	174	174	174	1	A	B13
	CMF54016	40	65	370	208	174	174	174	0	A	B13
	CMF54018	40	65	370	208	174	174	174	1	A	B13
	CMF54316	43	70	440	208	174	174	174	0	A	B13
	CMF54318	43	70	440	208	174	174	174	1	A	B13
	CMF55016	50	75	460	208	174	174	174	0	A	B13
	CMF55018	50	75	460	208	174	174	174	1	A	B13
L1	CMF54459	44	80	400	208	174	189	189	0	A	B13
	CMF54464	44	80	400	208	174	189	189	1	A	B13
	CMF55066	50	83	430	208	174	189	189	0	A	B13
	CMF55068	50	83	430	208	174	189	189	1	A	B13
LB2	CMF53340	33	55	330	242	174	174	174	0	A	B13
	CMF53840	38	63	370	242	174	174	174	0	A	B13
	CMF53844	38	63	370	242	174	174	174	1	A	B13
	CMF54240	42	68	410	242	174	174	174	0	A	B13
	CMF54244	42	68	410	242	174	174	174	1	A	B13
	CMF54519	45	80	440	242	174	174	174	0	A	B14
	CMF54520	45	80	440	242	174	174	174	1	A	B14
	CMF55040	50	85	460	242	174	174	174	0	A	B13
	CMF55044	50	85	460	242	174	174	174	1	A	B13
	CMF55457	54	94	500	242	174	174	174	0	A	B13
	CMF55458	54	94	500	242	174	174	174	1	A	B13
	CMF55840	58	95	530	242	174	174	174	0	A	B13

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DIN Group	Type No. (DIN)	Capacity	RC (Min.)	EN (CCA)	Dimension(mm)				Cell Lay-Out	Terminal	Hold- down
		20Hr (Ah)			L	W	H	TH			
L2	CMF55559	55	95	480	242	174	189	189	0	A	B13
	CMF55565	55	95	480	242	174	189	189	1	A	B13
	CMF56219	62	105	520	242	174	189	189	0	A	B13
	CMF56220	62	105	520	242	174	189	189	1	A	B13
	CMF56459	64	110	580	242	174	189	189	0	A	B13
	CMF56464	64	110	580	242	174	189	189	1	A	B13
	CMF56559	65	115	600	242	174	189	189	0	A	B13
	CMF56560	65	115	600	242	174	189	189	1	A	B13
LB3	CMF55415	54	94	500	275	174	174	174	0	A	B13
	CMF55416	54	94	500	275	174	174	174	1	A	B13
	CMF56318	63	110	570	275	174	174	174	0	A	B13
	CMF56320	63	110	570	275	174	174	174	1	A	B13
	CMF57113	71	120	650	275	174	174	174	0	A	B13
	CMF57115	71	120	650	275	174	174	174	1	A	B13
L3	CMF56638	66	110	540	275	174	189	189	0	A	B13
	CMF56640	66	110	540	275	174	189	189	1	A	B13
	CMF57412	74	130	660	275	174	189	189	0	A	B13
	CMF57413	74	130	660	275	174	189	189	1	A	B13
LB4	CMF57539	75	140	660	314	174	174	174	0	A	B13
	CMF58014	80	155	700	314	174	174	174	0	A	B13
	CMF58016	80	155	700	314	174	174	174	1	A	B13
	CMF58510	85	160	780	314	174	174	174	0	A	B13
	CMF58512	85	160	780	314	174	174	174	1	A	B13
L4	CMF58043	80	150	670	314	174	190	190	0	A	B13
	CMF58044	80	150	670	314	174	190	190	1	A	B13
	CMF59042	90	170	720	314	174	190	190	0	A	B13
	CMF59043	90	170	720	314	174	190	190	1	A	B13
LB5	CMF58515	85	155	720	351	174	174	174	0	A	B13
L5	CMF58827	88	150	680	351	174	189	189	0	A	B13
	CMF58828	88	150	680	351	174	189	189	1	A	B13
	CMF59218	92	160	720	351	174	189	189	0	A	B13
	CMF60038	100	170	780	351	174	189	189	0	A	B13
	CMF61034	110	190	850	351	174	189	189	0	A	B13
L6	CMF61042	110	205	850	392	174	189	189	0	A	B13
	CMF61043	110	205	850	392	174	189	189	1	A	B13

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DIN Group	Type No. (DIN)	Capacity	RC (Min.)	EN (CCA)	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
		20Hr (Ah)			L	W	H	TH			
COMMERCIAL & HEAVY DUTY	CMF62034	120	230	800	503	183	193	215	3	A	B0
	CMF62038	120	230	800	503	183	193	215	4	A	B0
	CMF64020	140	250	850	503	183	193	215	3	A	B0
	CMF64021	140	250	850	503	183	193	215	4	A	B0
	CMF64317	143	300	900	503	219	193	215	3	A	B0
	CMF64318	143	300	900	503	219	193	215	4	A	B0
	CMF67018	170	320	950	503	219	193	215	3	A	B0
	CMF67019	170	320	950	503	219	193	215	4	A	B0
	CMF68032	180	330	1000	503	219	193	215	3	A	B0
	CMF68033	180	330	1000	503	219	193	215	4	A	B0
	CMF70018	200	430	1050	503	219	193	215	3	A	B0
	CMF70019	200	430	1050	503	219	193	215	4	A	B0
	CMF70027	200	430	1050	503	261	217	239	3	A	B0
	CMF70029	200	430	1050	503	261	217	239	4	A	B0
	CMF72027	220	470	1150	503	261	217	239	3	A	B0
	CMF72029	220	470	1150	503	261	217	239	4	A	B0
JIS (B19)	CMF53520	35	52	300	187	127	199	219	0	B	B0/W1
	CMF53522	35	52	300	187	127	199	219	1	B	B0/W1
	CMF54026	40	63	330	187	127	199	219	0	B	B0/W1
	CMF54027	40	63	330	187	127	199	219	1	B	B0/W1
JIS (B24)	CMF54523	45	80	400	236	128	200	220	0	A	B0
	CMF54524	45	80	400	236	128	200	220	1	A	B0
	CMF54584	45	80	400	236	128	200	220	0	B	B0
	CMF54551	45	80	400	236	128	200	220	1	B	B0
-	CMF54577	45	70	380	217	134	200	220	0	A	B1
	CMF54578	45	70	380	217	134	200	220	0	B	B1
	CMF54579	45	70	380	217	134	200	220	1	A	B1
	CMF54580	45	70	380	217	134	200	220	1	B	B1
JIS (D23)	CMF56068	60	110	520	230	168	200	220	0	A	B0/B1
	CMF56069	60	110	520	230	168	200	220	1	A	B0/B1
JIS (D26)	CMF56048	60	110	500	260	168	200	220	0	A	B0/B1
	CMF56049	60	110	500	260	168	200	220	1	A	B0/B1
	CMF57024	70	130	560	260	168	200	220	1	A	B0/B1
	CMF57029	70	130	560	260	168	200	220	0	A	B0/B1
JIS (D31)	CMF57512	75	120	600	301	172	200	220	0	A	B0/B1
	CMF57513	75	120	600	301	172	200	220	1	A	B0/B1
	CMF58513	85	160	660	301	172	200	220	0	A	B0/B1
	CMF58514	85	160	660	301	172	200	220	1	A	B0/B1
	CMF59518	95	170	720	301	172	200	220	0	A	B0/B1
	CMF59519	95	170	720	301	172	200	220	1	A	B0/B1
-	CMF59615	96	175	730	324	172	204	224	0	A	B1
	CMF59616	96	175	730	324	172	204	224	1	A	B1
JIS (E41)	CMF60016	100	175	750	403	173	209	231	0	A	B0

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For American Vehicles

BCI CMF Series



BCI GROUP SIZE	PART NO.	SAE CCA at 0° F (Amps)	RC (Min.) at 80° F	Dimension(mm)				Lay-Out	Terminal	Hold-down
				L	W	H	TH			
26/70 (70DT)	26/70-450	450	75	208	179	184	204	10,17	DUAL	B7
	26/70-550	550	90	208	179	184	204	10,17	DUAL	B7
26	26-450	450	75	208	172	184	204	10	A	B7
	26-550	550	90	208	172	184	204	10	A	B7
26R	26R-450	450	75	208	172	184	204	11	A	B7
	26R-550	550	90	208	172	184	204	11	A	B7
70	70-450	450	75	208	179	184	184	17	H	B7
	70-550	550	90	208	179	184	184	17	H	B7
34/78 (78DT)	34/78-600	600	110	260	179	184	204	10,17	DUAL	B7
	34/78-650	650	120	260	179	184	204	10,17	DUAL	B7
	34/78-700	700	130	260	179	184	204	10,17	DUAL	B7
	34/78-750	750	135	260	179	184	204	10,17	DUAL	B7
34	34-600	600	110	260	172	184	204	10	A	B7
	34-650	650	120	260	172	184	204	10	A	B7
	34-700	700	130	260	172	184	204	10	A	B7
	34-750	750	135	260	172	184	204	10	A	B7
34R	34R-600	600	110	260	172	184	204	11	A	B7
	34R-650	650	120	260	172	184	204	11	A	B7
	34R-700	700	130	260	172	184	204	11	A	B7
	34R-750	750	135	260	172	184	204	11	A	B7
78	78-600	600	110	260	179	184	184	17	H	B7
	78-650	650	120	260	179	184	184	17	H	B7
	78-700	700	130	260	179	184	184	17	H	B7
	78-750	750	135	260	179	184	184	17	H	B7
75/86 (75DT)	75/86-520	520	90	230	179	184	204	10,17	DUAL	B7
	75/86-570	570	95	230	179	184	204	10,17	DUAL	B7
	75/86-630	630	100	230	179	184	204	10,17	DUAL	B7
75	75-520	520	90	230	179	184	184	17	H	B7
	75-570	570	95	230	179	184	184	17	H	B7
	75-630	630	100	230	179	184	184	17	H	B7
86 (85R)	86-520	520	90	230	172	184	204	10	A	B7
	86-570	570	95	230	172	184	204	10	A	B7
	86-630	630	100	230	172	184	204	10	A	B7
85	85-520	520	90	230	172	184	204	11	A	B7
	85-570	570	95	230	172	184	204	11	A	B7
	85-630	630	100	230	172	184	204	11	A	B7
65	65-670	670	130	294	189	172	192	10	A	B1
	65-720	720	145	294	189	172	192	10	A	B1
	65-820	820	155	294	189	172	192	10	A	B1

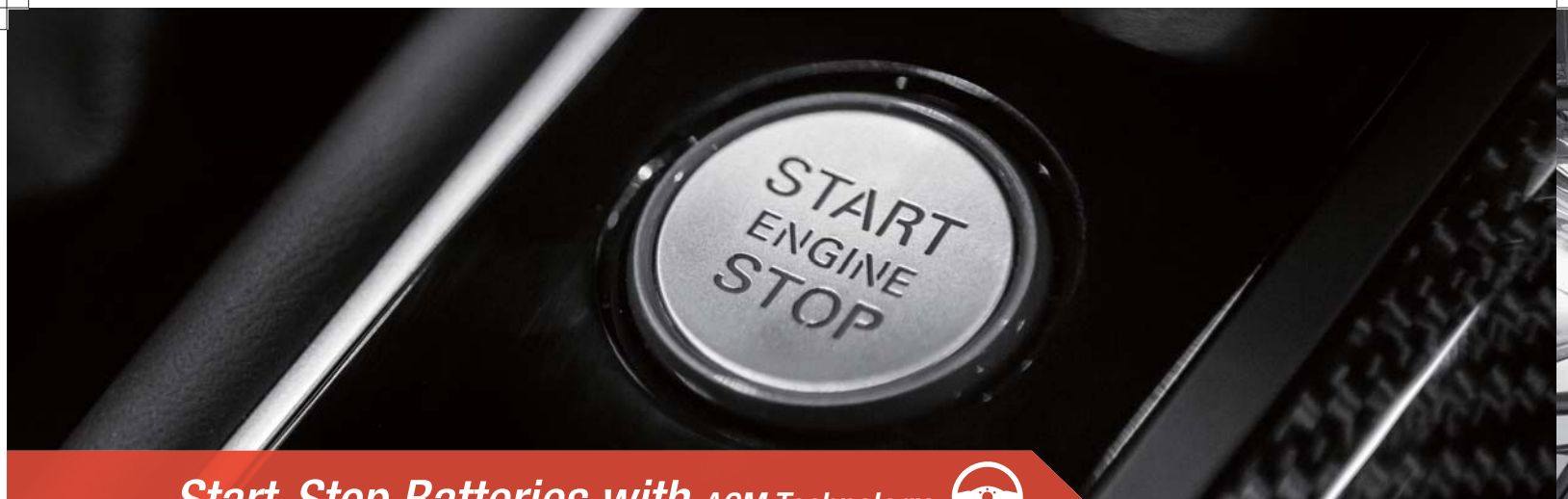
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BCI GROUP SIZE	PART NO.	SAE CCA at 0° F (Amps)	RC (Min.) at 80° F	Dimension(mm)				Lay-Out	Terminal	Hold-down
				L	W	H	TH			
31P	31P-650	650	150	330	172	217	238	18	A	B0
	31P-750	750	170	330	172	217	238	18	A	B0
	31P-850	850	180	330	172	217	238	18	A	B0
	31P-950	950	190	330	172	217	238	18	A	B0
	31P-1000	1000	195	330	172	217	238	18	A	B0
31S	31S-650	650	150	330	172	217	238	18	G	B0
	31S-750	750	170	330	172	217	238	18	G	B0
	31S-850	850	180	330	172	217	238	18	G	B0
	31S-950	950	190	330	172	217	238	18	G	B0
	31S-1000	1000	195	330	172	217	238	18	G	B0
31TWIN	31M-650	650	150	330	172	217	238	18	K	B0
	31M-750	750	170	330	172	217	238	18	K	B0
	31M-850	850	180	330	172	217	238	18	K	B0
	31M-950	950	190	330	172	217	238	18	K	B0
	31M-1000	1000	195	330	172	217	238	18	K	B0
30H	30H-750	750	175	325	172	203	223	10	A	B1
	30H-850	850	190	325	172	203	223	10	A	B1
58	58-500	500	72	241	182	157	177	10	A	B8
	58-560	560	78	241	182	157	177	10	A	B8
58R	58R-500	500	72	241	182	157	177	11	A	B8
	58R-560	560	78	241	182	157	177	11	A	B8
24	24-350	350	80	260	175	200	220	10	A	B1
	24-450	450	95	260	175	200	220	10	A	B1
	24-500	500	110	260	175	200	220	10	A	B1
	24-550	550	110	260	175	200	220	10	A	B1
	24-600	600	120	260	175	200	220	10	A	B1
	24-620	620	130	260	175	200	220	10	A	B1
	24-650	650	140	260	175	200	220	10	A	B1
	24-700	700	130	260	175	200	220	10	A	B1
24R (124R)	24R-350	350	80	260	175	200	220	11	A	B1
	24R-450	450	95	260	175	200	220	11	A	B1
	24R-500	500	110	260	175	200	220	11	A	B1
	24R-550	550	110	260	175	200	220	11	A	B1
	24R-600	600	120	260	175	200	220	11	A	B1
	24R-620	620	130	260	175	200	220	11	A	B1
	24R-650	650	140	260	175	200	220	11	A	B1
	24R-700	700	130	260	175	200	220	11	A	B1
21R (121R)	21R-450	450	90	205	175	200	220	11	A	B1
	21R-550	550	95	205	175	200	220	11	A	B1
25	25-450	450	90	230	172	200	220	10	A	B1
	25-550	550	110	230	172	200	220	10	A	B1
	25-580	580	115	230	172	200	220	10	A	B1
35	35-450	450	90	230	172	200	220	11	A	B1
	35-550	550	110	230	172	200	220	11	A	B1
	35-580	580	115	230	172	200	220	11	A	B1
27	27-550	550	115	301	172	200	220	10	A	B1
	27-620	620	130	301	172	200	220	10	A	B1
	27-660	660	150	301	172	200	220	10	A	B1
	27-750	750	160	301	172	200	220	10	A	B1
	27-780	780	170	301	172	200	220	10	A	B1
	27-810	810	160	301	172	200	220	10	A	B1

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BCI GROUP SIZE	PART NO.	SAE CCA at 0° F (Amps)	RC (Min.) at 80° F	Dimension(mm)				Lay-Out	Terminal	Hold- down
				L	W	H	TH			
27R	27R-550	550	115	301	172	200	220	11	A	B1
	27R-620	620	130	301	172	200	220	11	A	B1
	27R-660	660	150	301	172	200	220	11	A	B1
	27R-750	750	160	301	172	200	220	11	A	B1
	27R-780	780	170	301	172	200	220	11	A	B1
	27R-810	810	160	301	172	200	220	11	A	B1
51	51-370	370	65	236	128	200	220	10	A	B0
	51-440	440	75	236	128	200	220	10	A	B0
	51-460	460	80	236	128	200	220	10	A	B0
	51-500	500	85	236	128	200	220	10	A	B0
51R	51R-370	370	65	236	128	200	220	11	A	B0
	51R-440	440	75	236	128	200	220	11	A	B0
	51R-460	460	80	236	128	200	220	11	A	B0
	51R-500	500	85	236	128	200	220	11	A	B0
151R	151R-350	350	54	187	127	199	219	11	B	B0
	151R-360	360	60	187	127	199	219	11	B	B0
	151R-370	370	63	187	127	199	219	11	B	B0
47/H5	47-480	480	95	242	174	189	189	15	A	B13
	47-520	520	105	242	174	189	189	15	A	B13
	47-580	580	110	242	174	189	189	15	A	B13
	47-600	600	115	242	174	189	189	15	A	B13
48/H6	48-540	540	110	275	174	189	189	15	A	B13
	48-660	660	130	275	174	189	189	15	A	B13
	48-700	700	130	275	174	189	189	15	A	B13
49/H8	49-730	730	150	351	174	189	189	15	A	B13
	49-770	770	160	351	174	189	189	15	A	B13
	49-820	820	170	351	174	189	189	15	A	B13
	49-850	850	180	351	174	189	189	15	A	B13
	49-900	900	190	351	174	189	189	15	A	B13
90	90-400	400	63	242	174	174	174	15	A	B13
	90-430	430	68	242	174	174	174	15	A	B13
	90-490	490	85	242	174	174	174	15	A	B13
	90-550	550	94	242	174	174	174	15	A	B13
	90-600	600	95	242	174	174	174	15	A	B13
91	91-500	500	94	275	174	174	174	15	A	B13
	91-570	570	110	275	174	174	174	15	A	B13
	91-650	650	120	275	174	174	174	15	A	B13
	91-700	700	120	275	174	174	174	15	A	B13
92	92-660	660	140	314	174	174	174	15	A	B13
	92-720	720	155	314	174	174	174	15	A	B13
	92-780	780	160	314	174	174	174	15	A	B13
93	93-720	720	155	351	174	174	174	15	A	B13
	93-760	760	160	351	174	174	174	15	A	B13
94R/H7	94R-640	640	150	314	174	189	189	15	A	B13
	94R-680	680	170	314	174	189	189	15	A	B13
	94R-750	750	170	314	174	189	189	15	A	B13
95R/H9	95R-850	850	205	392	174	189	189	15	A	B13
96R	96R-440	440	80	242	174	174	174	15	A	B14
	96R-550	550	90	242	174	174	174	15	A	B14
4D	4D-1000	1000	300	503	216	208	230	8	A	B0
	4D-1050	1050	320	503	216	208	230	8	A	B0
8D	8D-1100	1100	430	503	261	217	239	8	A	B0
	8D-1200	1200	470	503	261	217	239	8	A	B0

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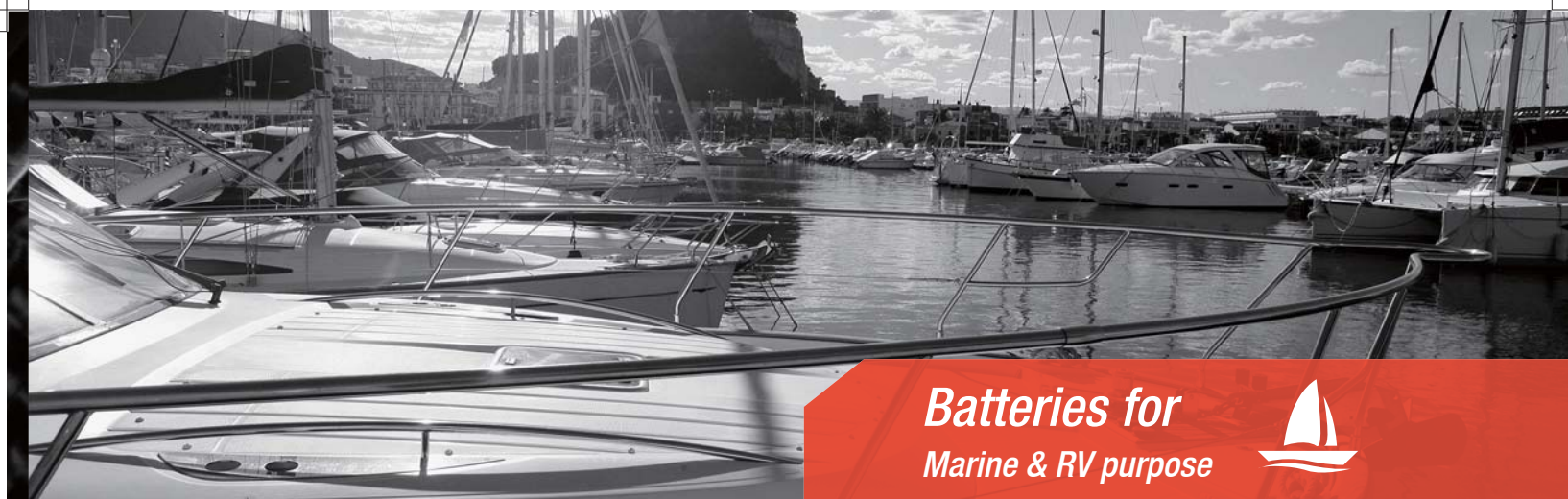
Start-Stop Batteries with AGM Technology

Group	BCI Group	Type No.	Capacity	RC (Min.)	CCA	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
			20Hr (Ah)			L	W	H	TH			
DIN L2	47/H5	AGM60	60	100	640	242	174	189	189	0	A	B13
DIN L3	48/H6	AGM70	70	120	760	275	174	189	189	0	A	B13
DIN L4	94R/H7	AGM80	80	140	800	314	174	189	189	0	A	B13
DIN L5	49/H8	AGM95	95	160	850	351	174	189	189	0	A	B13

Start-Stop Batteries with EFB Technology

Group	BCI Group	Type No.	Capacity	RC (Min.)	CCA	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
			20Hr (Ah)			L	W	H	TH			
DIN L2	47/H5	EFB60	60	120	560	242	174	189	189	0	A	B13
DIN LB3	91	EFB65	65	120	650	275	174	174	174	0	A	B13
DIN L3	48/H6	EFB70	70	135	680	275	174	189	189	0	A	B13
DIN LB4	92	EFB75	75	145	730	314	174	174	174	0	A	B13
DIN L4	94R/H7	EFB80	80	150	740	314	174	189	189	0	A	B13
DIN L5	49/H8	EFB95	95	180	850	351	174	189	189	0	A	B13
DIN L6	95R/H9	EFB110	110	220	900	392	174	189	189	0	A	B13
JIS B19		EFB K42R	38	55	360	187	127	199	219	1	B	B0/W1
		EFB K42	38	55	360	187	127	199	219	0	B	B0/W1
JIS B20		EFB M42R	40	60	400	197	127	200	220	1	B	B0
		EFB M42	40	60	400	197	127	200	220	0	B	B0
		EFB M42RS	40	60	400	197	127	200	220	1	A	B0
		EFB M42S	40	60	400	197	127	200	220	0	A	B0
JIS B24		EFB N55R	50	75	440	236	128	200	220	1	B	B0
		EFB N55	50	75	440	236	128	200	220	0	B	B0
		EFB N55RS	50	75	440	236	128	200	220	1	A	B0
		EFB N55S	50	75	440	236	128	200	220	0	A	B0
JIS D23		EFB Q85R	60	120	560	230	172	200	220	1	A	B0/B1
		EFB Q85	60	120	560	230	172	200	220	0	A	B0/B1
		UEFB Q85R	65	125	620	230	172	200	220	1	A	B1
		UEFB Q85	65	125	620	230	172	200	220	0	A	B1
JIS D26		EFB S95R	70	135	680	260	175	200	220	1	A	B0/B1
		EFB S95	70	135	680	260	175	200	220	0	A	B0/B1
		UEFB S95R	75	140	720	260	175	200	220	1	A	B1
		UEFB S95	75	140	720	260	175	200	220	0	A	B1
JIS D31		EFB T110R	80	150	740	301	172	200	220	1	A	B0/B1
		EFB T110	80	150	740	301	172	200	220	0	A	B0/B1
		UEFB T110R	85	160	810	301	172	200	220	1	A	B1
		UEFB T110	85	160	810	301	172	200	220	0	A	B1

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Batteries for Marine & RV purpose



MR Series : Starting & Light Cycling

BCI Group	PART NO.	Capacity	RC (Min.)	CCA (-18℃)	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
		20Hr (Ah)			L	W	H	TH			
24	EMR24	65	120	600	260	172	200	223	18	K	B1
	MR24	70	130	650	260	172	200	223	18	K	B1
	XMR24	70	130	700	260	172	200	223	18	K	B1
27	EMR27	75	140	700	303	172	200	223	18	K	B1
	MR27	85	160	750	303	172	200	223	18	K	B1
	XMR27	85	160	800	303	172	200	223	18	K	B1
31	EMR31	90	170	750	330	172	217	238	18	K	B0
	MR31	100	180	850	330	172	217	238	18	K	B0
	XMR31	100	190	950	330	172	217	238	18	K	B0

DC Series : Deep Cycle & Starting

BCI Group	PART NO.	Capacity	RC (Min.)	CCA (-18℃)	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
		20Hr (Ah)			L	W	H	TH			
24	EDC24	70	130	500	260	172	200	223	18	K	B1
	DC24	75	140	550	260	172	200	223	18	K	B1
	XDC24	80	145	600	260	172	200	223	18	K	B1
27	EDC27	85	155	590	303	172	200	223	18	K	B1
	DC27	90	165	640	303	172	200	223	18	K	B1
	XDC27	95	170	690	303	172	200	223	18	K	B1
31	EDC31	100	190	650	330	172	217	238	18	K	B0
	DC31	105	200	700	330	172	217	238	18	K	B0
	XDC31	110	205	750	330	172	217	238	18	K	B0

U1 Series : Lawn & Garden

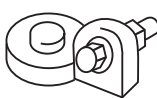
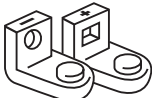
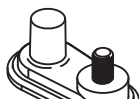
BCI Group	PART NO.	RC (Min.)	CCA (-18℃)	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
				L	W	H	TH			
U1	U1-200	28	200	197	130	158	185	1	L	B0
	U1R-200	28	200	197	130	158	185	0	L	B0
	U1-240	33	240	197	130	158	185	1	L	B0
	U1R-240	33	240	197	130	158	185	0	L	B0
	U1-270	35	270	197	130	158	185	1	L	B0
	U1R-270	35	270	197	130	158	185	0	L	B0
	U1-340	40	340	197	130	158	185	1	L	B0
	U1R-340	40	340	197	130	158	185	0	L	B0

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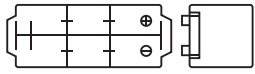
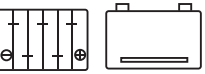
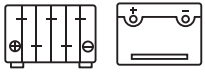
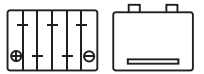
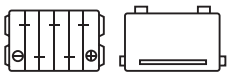
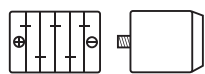
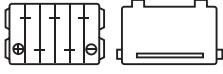
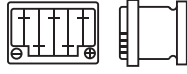
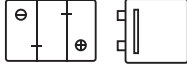
Drawing



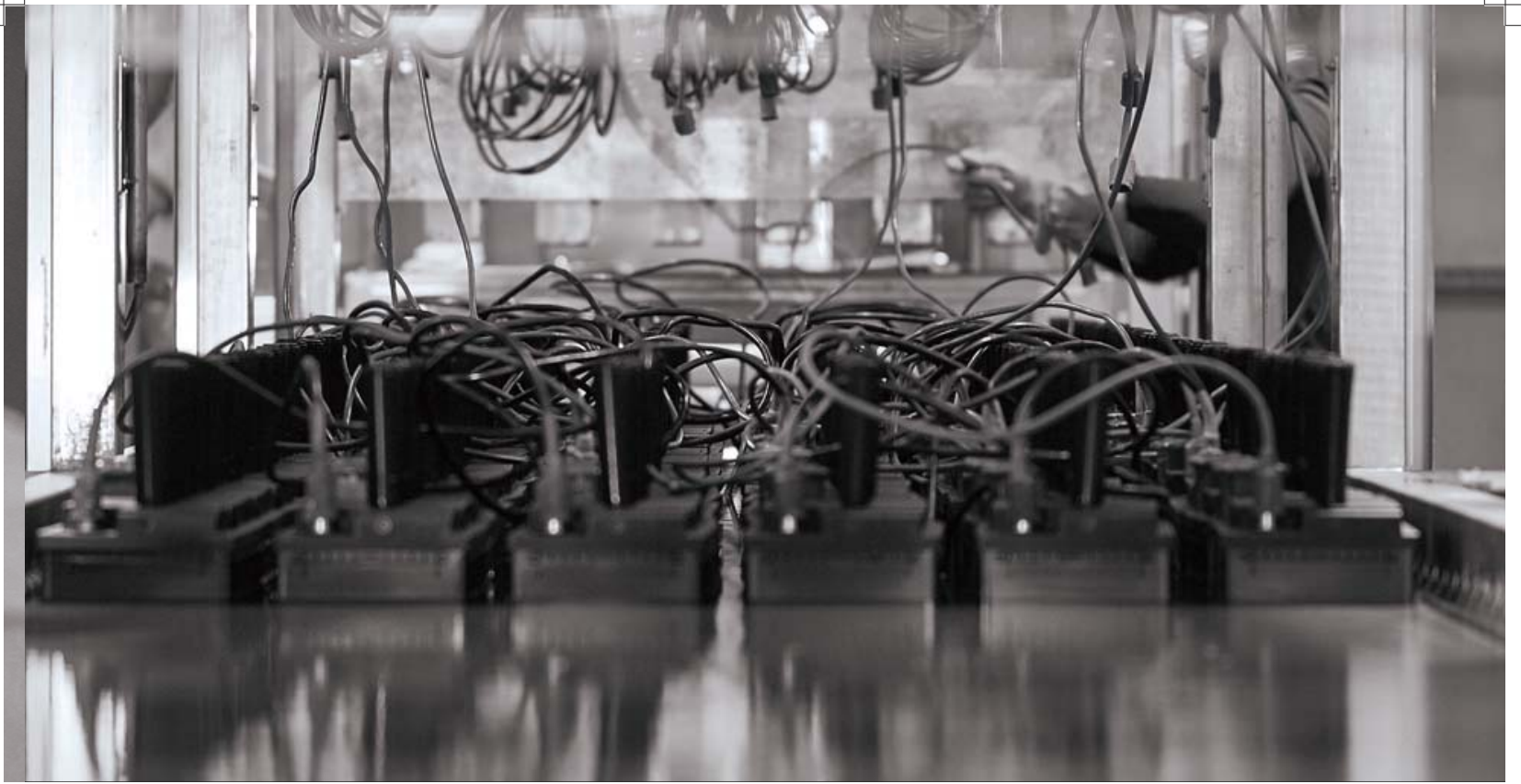
Terminal

A	B	C	D
			
Standard	Small	Type BN	Type X
E	F	G	H
			
Ford Type	Type V(Marine)	Type T(Stud)	Side Type
I	J	K	L
			
Type L	Dual Fit Type	Marine Twin	U1 LUG

BCI Assembly Numbers, Cell Lay-out

FIG.8		FIG.11		FIG.17	
FIG.10		FIG.11F		FIG.18	
FIG.10F		FIG.15		FIG.19	

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Cell Lay-out

0	1	2	3	4

Base Hold-Down

W1		B1	
B3		B5	
B6		B7	
B8		B9	
B13		B14	

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