



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

Automotive Batteries AGM Series

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

Automotive Batteries EFB Series

Group	BCI Group	Type No.	Capacity	RC (Min.)	CCA	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
			20Hr (Ah)			L	W	H	TH			
DIN L1		EFB50	50	90	480	207	174	189	189	0	A	B13
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

Group	BCI Group	Type No.	Capacity	RC (Min.)	CCA	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
			20Hr (Ah)			L	W	H	TH			
JIS D26		EFB S95R	70	135	680	260	175	200	220	0	A	B0/B1
		EFB S95	70	135	680	260	175	200	220	1	A	B0/B1
		UEFB S95R	75	140	720	260	175	200	220	0	A	B1
		UEFB S95	75	140	720	260	175	200	220	1	A	B1
JIS D31		EFB T110R	80	150	740	301	172	200	220	0	A	B0/B1
		EFB T110	80	150	740	301	172	200	220	1	A	B0/B1
		UEFB T110R	85	160	810	301	172	200	220	0	A	B1
		UEFB T110	85	160	810	301	172	200	220	1	A	B1

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Automotive Batteries CMF JIS Series

JIS Group	JIS No.	Capacity	CCA (SAE)	RC (Min.)	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
	New	20Hr (Ah)			L	W	H	TH			
B19	40B19R	35	330	54	187	127	199	219	1	B	B0/W1
	40B19L	35	330	54	187	127	199	219	0	B	B0/W1
	40B19RS	35	330	54	187	127	199	219	1	A	B0/W1
	40B19LS	35	330	54	187	127	199	219	0	A	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
	42B19RS	38	360	60	187	127	199	219	1	A	B0/W1
	42B19LS	38	360	60	187	127	199	219	0	A	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
	50B19RS	40	370	63	187	127	199	219	1	A	B0/W1
	50B19LS	40	370	63	187	127	199	219	0	A	B0/W1
B24	50B24R	40	370	65	236	128	200	220	1	B	B0
	50B24L	40	370	65	236	128	200	220	0	B	B0
	50B24RS	40	370	65	236	128	200	220	1	A	B0
	50B24LS	40	370	65	236	128	200	220	0	A	B0
	55B24R	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
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

JIS Group	JIS No.	Capacity	CCA (SAE)	RC (Min.)	Dimension(mm)				Cell Lay-Out	Terminal	Hold-down
	New	20Hr (Ah)			L	W	H	TH			
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	50	450	95	260	172	200	220	1	A	B0/B1
	48D26L	50	450	95	260	172	200	220	0	A	B0/B1
	55D26R	60	500	110	260	172	200	220	1	A	B0/B1
	55D26L	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	70	620	130	260	172	200	220	1	A	B0/B1
	85D26L	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	70	600	130	301	172	200	220	1	A	B0/B1
	65D31L	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	90	750	160	301	172	200	220	1	A	B0/B1
	105D31L	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
E41	CMF100R	100	750	175	324	172	204	224	1	A	B1
	CMF100L	100	750	175	324	172	204	224	0	A	B1
	CMFN100	100	780	175	403	173	209	231	1	A	B0
	CMFN100L	100	780	175	403	173	209	231	0	A	B0

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Automotive Batteries CMF EN(DIN) 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

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
	CMF56826	68	115	610	275	174	174	174	0	A	B13
	CMF56821	68	115	610	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
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

DIN Group	Type No. (DIN)	Capacity	RC (Min.)	EN (CCA)	Dimension(mm)				Cell Lay-Out	Terminal	Hold- down
		20Hr (Ah)			L	W	H	TH			
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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Automotive Batteries

CMF BCI 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
	26/70-500	500	90	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
	26-500	500	90	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-500	500	90	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
	70-500	500	90	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
	65-850	850	155	294	189	172	192	10	A	B1
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

■ Notice : The Specifications are subject to change with or without notice

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			
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	165	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
	24-750	750	135	260	175	200	220	10	A	B1
24R (124R)	24R-350	350	80	260	175	200	220	10	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
	24R-750	750	135	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
	21R-600	600	110	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
	25-640	640	120	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
	35-640	640	120	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
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

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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			
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	A	B0
	151R-360	360	60	187	127	199	219	11	A	B0
	151R-370	370	63	187	127	199	219	11	A	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
	48-740	740	135	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
	94R-790	790	175	314	174	189	189	15	A	B13
95R/H8	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
140R/H4	140R-400	400	80	207	174	189	189	15	A	B13
	140R-430	430	83	207	174	189	189	15	A	B13

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Commercial Batteries EFB series

Group	PART NO.	Capacity	CCA (EN)	Dimension(mm)				Cell Lay-Out	Terminal	Hold- down
		20Hr (Ah)		L	W	H	TH			
DIN B	EFB69018	190	1050	510	221	193	216	3	A	B0
	EFB69019	190	1050	510	221	193	216	4	A	B0
DIN C	EFB72513	225	1150	515	274	217	240	3	A	B0
	EFB72514	225	1150	515	274	217	240	4	A	B0

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Commercial Batteries SHD series

Group	PART NO.	Capacity	CCA (EN)	Dimension(mm)				Cell Lay-Out	Terminal	Hold- down
		20Hr (Ah)		L	W	H	TH			
DIN A	SHD64520	145	900	510	188	193	216	3	A	B0
	SHD64522	145	900	510	188	193	216	4	A	B0
DIN B	SHD67018	170	1000	510	221	193	216	3	A	B0
	SHD67019	170	1000	510	221	193	216	4	A	B0
	SHD68032	180	1050	510	221	193	216	3	A	B0
	SHD68033	180	1050	510	221	193	216	4	A	B0
DIN C	SHD72513	225	1150	515	274	217	240	3	A	B0
	SHD72514	225	1150	515	274	217	240	4	A	B0

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Commercial Batteries HD series

Group	PART NO.	Capacity	CCA (EN)	Dimension(mm)				Cell Lay-Out	Terminal	Hold- down
		20Hr (Ah)		L	W	H	TH			
DIN A	HD62034	120	800	510	188	193	216	3	A	B0
	HD62038	120	800	510	188	193	216	4	A	B0
	HD64020	140	850	510	188	193	216	3	A	B0
	HD64022	140	850	510	188	193	216	4	A	B0
DIN B	HD64317	143	900	510	221	193	216	3	A	B0
	HD64318	143	900	510	221	193	216	4	A	B0
	HD67018	170	950	510	221	193	216	3	A	B0
	HD67019	170	950	510	221	193	216	4	A	B0
	HD68032	180	1000	510	221	193	216	3	A	B0
	HD68033	180	1000	510	221	193	216	4	A	B0
	HD70018	200	1050	510	221	193	216	3	A	B0
	HD70019	200	1050	510	221	193	216	4	A	B0
DIN C	HD70027	200	1050	515	274	217	240	3	A	B0
	HD70029	200	1050	515	274	217	240	4	A	B0
	HD72513	225	1150	515	274	217	240	3	A	B0
	HD72514	225	1150	515	274	217	240	4	A	B0
F51	CMF120	120	850	503	182	208	230	4	A	B0
	CMF120L	120	850	503	182	208	230	3	A	B0
	CMF140	140	950	503	182	208	230	4	A	B0
	CMF140L	140	950	503	182	208	230	3	A	B0
G51	CMF150	150	1000	503	216	208	230	4	A	B0
	CMF150L	150	1000	503	216	208	230	3	A	B0
	CMF170	170	1050	503	216	208	230	4	A	B0
	CMF170L	170	1050	503	216	208	230	3	A	B0
H52	CMF200	200	1100	503	261	208	239	4	A	B0
	CMF200L	200	1100	503	261	208	239	3	A	B0
	CMF220	220	1200	503	261	208	239	4	A	B0
	CMF220L	220	1200	503	261	208	239	3	A	B0
4D	4D-1000		1000	503	216	208	230	4	A	B0
	4D-1050		1050	503	216	208	230	4	A	B0
8D	8D-1100		1100	503	261	208	239	4	A	B0
	8D-1200		1200	503	261	208	239	4	A	B0

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Marine & RV Batteries

MR Series / Starting & Light Cycling

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

DC Series / Deep Cycle & Starting

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

U1 Series / Lawn & Garden

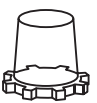
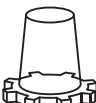
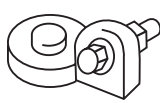
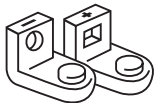
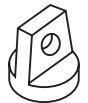
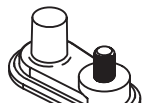
BCI Group	PART NO.	RC (Min.)	CCA (-18°C)	Dimension(mm)				Cell Lay-Out	Terminal
				L	W	H	TH		
U1	U1-200	28	200	197	130	158	185	1	L
	U1R-200	28	200	197	130	158	185	0	L
	U1-240	33	240	197	130	158	185	1	L
	U1R-240	33	240	197	130	158	185	0	L
	U1-270	35	270	197	130	158	185	1	L
	U1R-270	35	270	197	130	158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

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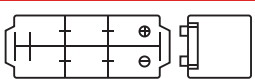
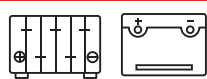
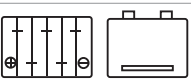
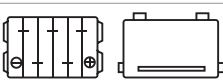
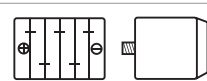
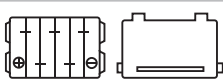
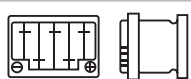
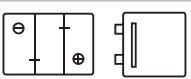
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Drawing

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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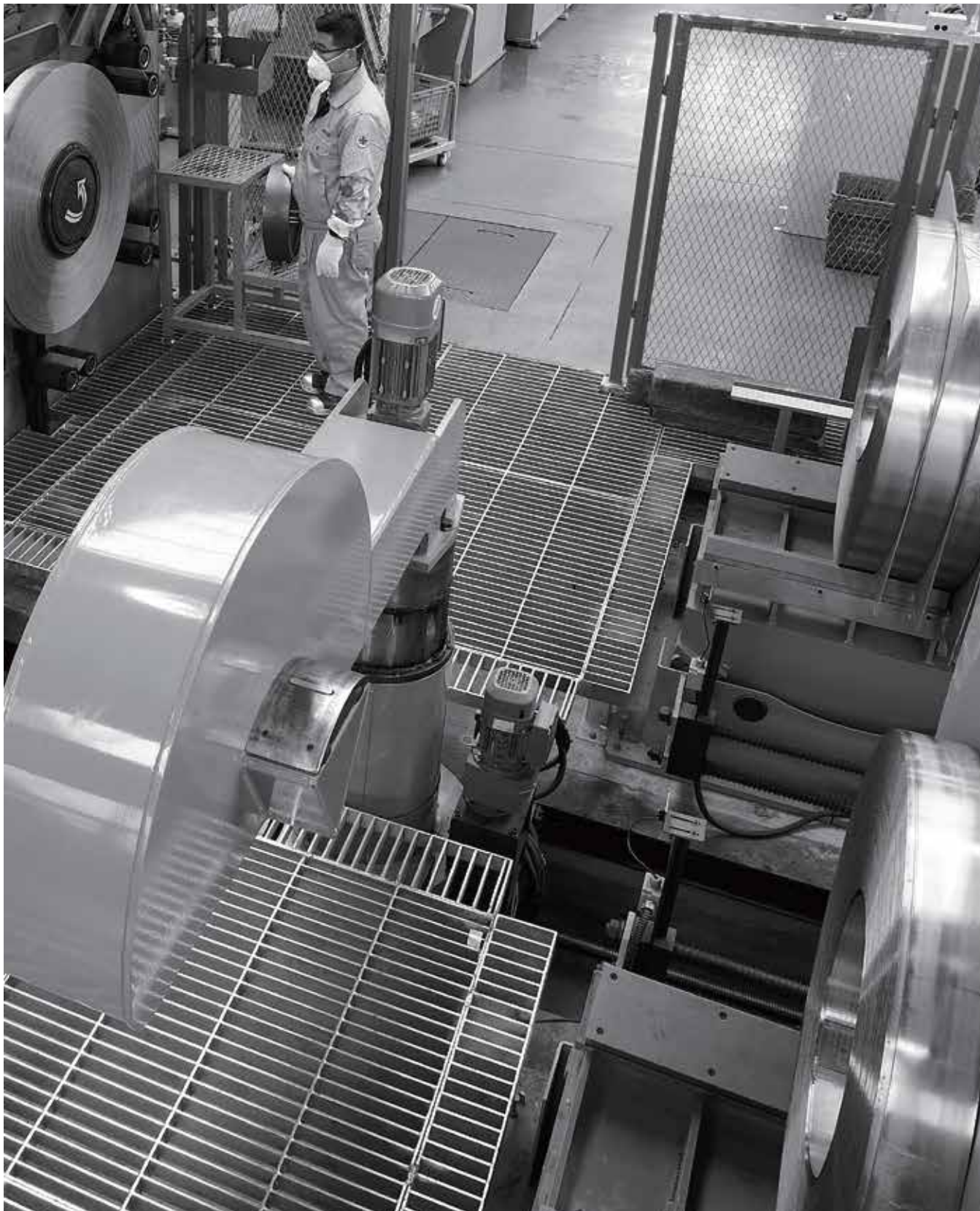
Cell Lay-out

0	1	2	3	4

Base Hold-Down

W1		B1	
B3		B5	
B6		B7	
B8		B9	
B13		B14	

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