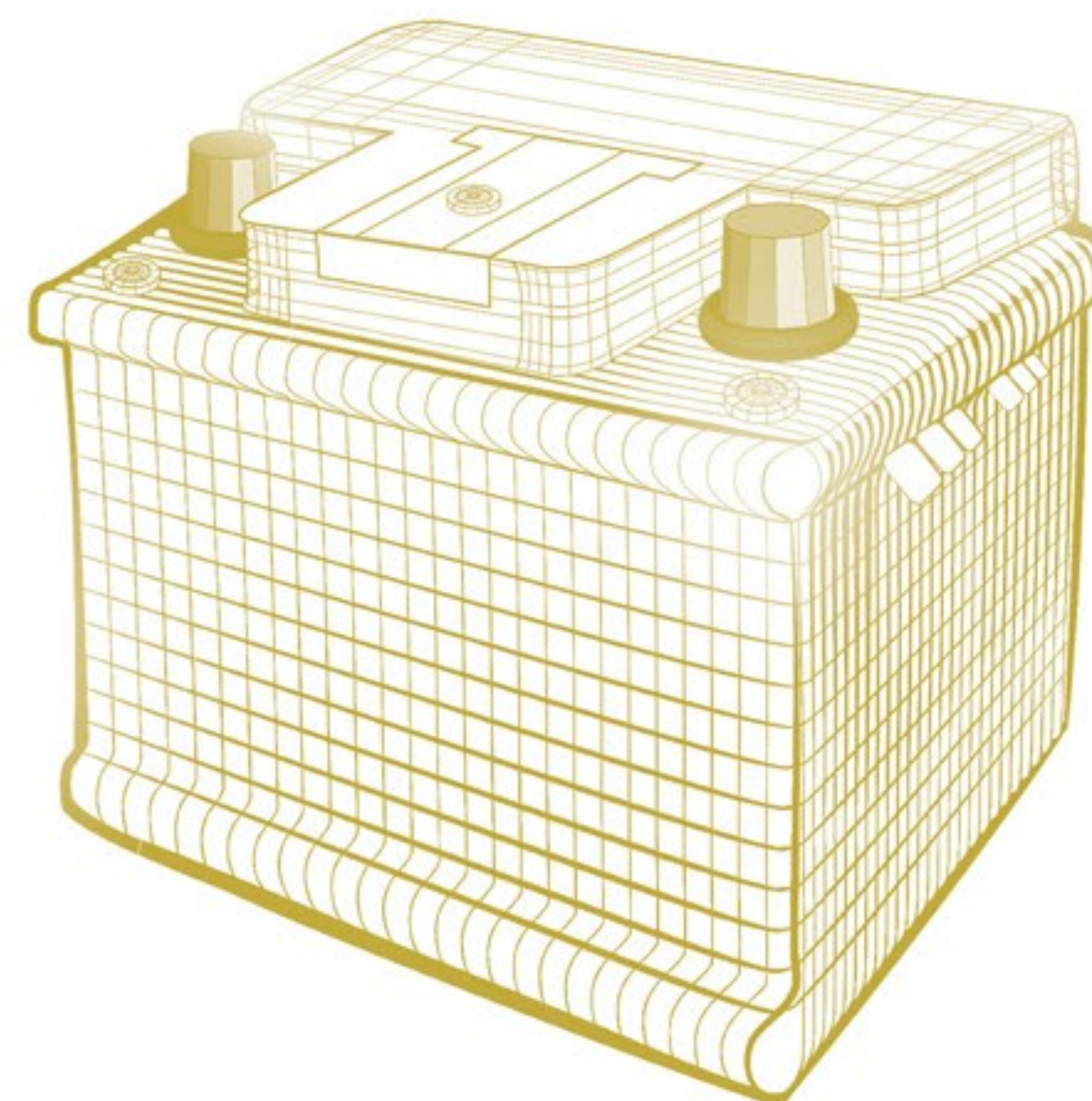


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Sepahan Battery Industrial Complex (SBIC)

Was founded in 1999 as the most hi-tech enterprise in automotive battery manufacturing in Iran. It is located at Oshtorjan industrial zone, Isfahan, Iran, and occupying a total land area of 65,000 m² with an investment in excess of 60 million USD. SBIC's annual production capacity is 5 million batteries, and it is planned to be increased further by introduction of a number of capacity alignment activities. The manufacturing equipment are mostly fully automated and are made by the most renowned European battery manufacturing equipment suppliers, such as Digatron, Sovema, TBS, BM, La Pneumatica, etc. Usage of state-of-the-art equipment and first-class raw material has enabled SBIC to produce the highest quality lead acid batteries for automotive applications to European, Japanese and North American standards. SBIC is equipped to produce enough battery plates, lead oxide, distilled water and diluted sulfuric acid to support annual production of batteries. SBIC has also tooled enough plastic injection molding capacity to support approximately one hundred percent of its production needs without relying on any external sources. Over the last 20 years, highly skilled engineers at SBIC have developed technical capabilities to be able to design and manufacture all types of batteries for OEM and after-market applications. SBIC's battery products include maintenance free (sealed), Euro-Kamina and Japanese N types for passenger cars and heavy duty vehicles in B20, B24, D23, D26, D31, G51, H51, E41, L1, L2, L3, L5, B, C from 35 AH to 220 AH capacity and also EFB batteries which are used for cars with start-stop technology.

L1

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
DIN										
L1	SMF54459	44	61	380	207	175	190	B3	A1	0
	SMF54507	49	70	415	207	175	190	B3	A1	0
	SMF55090	54	79	470	207	175	190	B3	A1	0

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4

L2

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
DIN										
L2	SMF55018	54	79	470	242	175	190	B3	A1	0
	SMF55559	59	88	505	242	175	190	B3	A1	0
	SMF56019	64	98	560	242	175	190	B3	A1	0

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TARGET DIN

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6

L3

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
DIN										
L3	SMF56638	69	110	595	278	175	190	B3	A1	0
	SMF57220	74	122	660	278	175	190	B3	A1	0
	SMF57412	78	126	685	278	175	190	B3	A1	0

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TARGET DIN



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8

L5

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
DIN										
L5	SMF58439	88	146	775	377	175	190	B3	A1	0
	SMF59018	93	154	830	377	175	190	B3	A1	0
	SMF59485	98	158	860	377	175	190	B3	A1	0
	SMF60044	103	179	920	377	175	190	B3	A1	0

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10

B

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
DIN										
B	SMF64566	150	278	975	510	222	232	B8	A1	3
	SMF64558	150	278	975	510	222	232	B8	A1	4
	SMF66514	170	324	1090	510	222	232	B8	A1	3
	SMF66515	170	324	1090	510	222	232	B8	A1	4
	SMF67570	180	348	1170	510	222	232	B8	A1	3
	SMF67562	180	348	1170	510	222	232	B8	A1	4
	SMF69018	200	383	1265	510	222	232	B8	A1	3
	SMF69065	200	383	1265	510	222	232	B8	A1	4

ATOMIC
TARGET



C

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
DIN										
C	SMF69077	200	383	1000	512	278	239	B8	A1	3
	SMF69074	200	383	1000	512	278	239	B8	A1	4
	SMF71884	226	451	1100	512	278	239	B8	A1	3
	SMF71883	226	451	1100	512	278	239	B8	A1	4
	SMF72025	233	456	1100	512	278	239	B8	A1	3
	SMF72076	233	456	1100	512	278	239	B8	A1	4

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B20

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
JIS										
B20 (NS40)	SMF38B20L(NS40ZL)	35	52	305	197	129	227	N	A2	0
	SMF38B20R(NS40Z)	35	52	305	197	129	227	N	A2	1

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B24

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
JIS										
B24 (NS60)	SMF41B24LS(N40L)	40	61	350	238	129	227	N	A1	0
	SMF41B24RS(N40)	40	61	350	238	129	227	N	A1	1
	SMF50B24L(NS60LS)	47	70	380	238	129	227	N	A1	0
	SMF50B24R(NS60S)	47	70	380	238	129	227	N	A1	1

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D 23

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
JIS										
D23	SMF65D23L	63	98	520	238	178	225	B4	A1	0
	SMF65D23R	63	98	520	238	178	225	B4	A1	1
	SMF75D23L	70	110	560	238	178	225	B4	A1	0
	SMF75D23R	70	110	560	238	178	225	B4	A1	1

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D26

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
JIS										
D26 (N50)	SMF50D26L(N50L)	50	73	420	257	176	225	B4	A1	0
	SMF50D26R(N50)	50	73	420	257	176	225	B4	A1	1
	SMF75D26L	70	110	560	257	176	225	B4	A1	0
	SMF75D26R	70	110	560	257	176	225	B4	A1	1
	SMF80D26L(NX110-5L)	75	118	620	257	176	225	B4	A1	0
	SMF80D26R(NX110-5)	75	118	620	257	176	225	B4	A1	1
	SMF90D26L	83	128	660	257	176	225	B4	A1	0
	SMF90D26R	83	128	660	257	176	225	B4	A1	1

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D31

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
JIS										
D31	SMF75D31L(N70L)	75	118	620	306	175	225	B4	A1	0
	SMF75D31R(N70)	75	118	620	306	175	225	B4	A1	1
	SMF95D31L	83	138	660	306	175	225	B4	A1	0
	SMF95D31R	83	138	660	306	175	225	B4	A1	1
	SMF105D31L	95	158	760	306	175	225	B4	A1	0
	SMF105D31R	95	158	760	306	175	225	B4	A1	1
	SMF120D31L	108	179	860	306	175	225	B4	A1	0
	SMF120D31R	108	179	860	306	175	225	B4	A1	1

ATOMIC
TARGET



G51

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
JIS										
G51	SMF150G51R (N150L)	150	278	975	510	222	232	B8	A1	3
	SMF150G51L(N150)	150	278	975	510	222	232	B8	A1	4
	SMF170G51R(N170L)	170	324	1090	510	222	232	B8	A1	3
	SMF170G51L(N170)	170	324	1090	510	222	232	B8	A1	4
	SMF195G51R(N180L)	180	348	1170	510	222	232	B8	A1	3
	SMF195G51L(N180)	180	348	1170	510	222	232	B8	A1	4
	SMF205G51R	200	383	1265	510	222	232	B8	A1	3
	SMF205G51L	200	383	1265	510	222	232	B8	A1	4

ATOMIC
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H51

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
JIS										
H51	SMF200H51R(N200L)	200	383	1000	512	278	239	B8	A1	3
	SMF200H51L(N200)	200	383	1000	512	278	239	B8	A1	4
	SMF226H51R	226	451	1100	512	278	239	B8	A1	3
	SMF226H51L	226	451	1100	512	278	239	B8	A1	4
	SMF245H51R(N245L)	233	456	1100	512	278	239	B8	A1	3
	SMF245H51L(N245)	233	456	1100	512	278	239	B8	A1	4

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Low Maintenance

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
DIN										
L1	54459	44	61	380	207	175	190	B3	A1	0
	54503	49	70	415	207	175	190	B3	A1	0
	55090	54	79	470	207	175	190	B3	A1	0
L2	55014	54	79	470	242	175	190	B3	A1	0
	55559	59	88	505	242	175	190	B3	A1	0
	56019	64	98	560	242	175	190	B3	A1	0
L3	56638	69	110	595	278	175	190	B3	A1	0
	57220	74	122	660	278	175	190	B3	A1	0
	57412	78	126	685	278	175	190	B3	A1	0

Low Maintenance

TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
DIN										
L5	58437	88	146	775	377	175	190	B3	A1	0
	59039	93	154	830	377	175	190	B3	A1	0
B	64547	150	278	975	513	222	217	B8	A1	3
	66514	170	324	1090	513	222	217	B8	A1	3
	67551	180	348	1170	513	222	217	B8	A1	3
	69018	200	383	1265	513	222	217	B8	A1	3
C	69055	200	383	1000	512	278	239	B8	A1	3
	71882	226	451	1100	512	278	239	B8	A1	3
	72025	233	456	1100	512	278	239	B8	A1	3

Low Maintenance

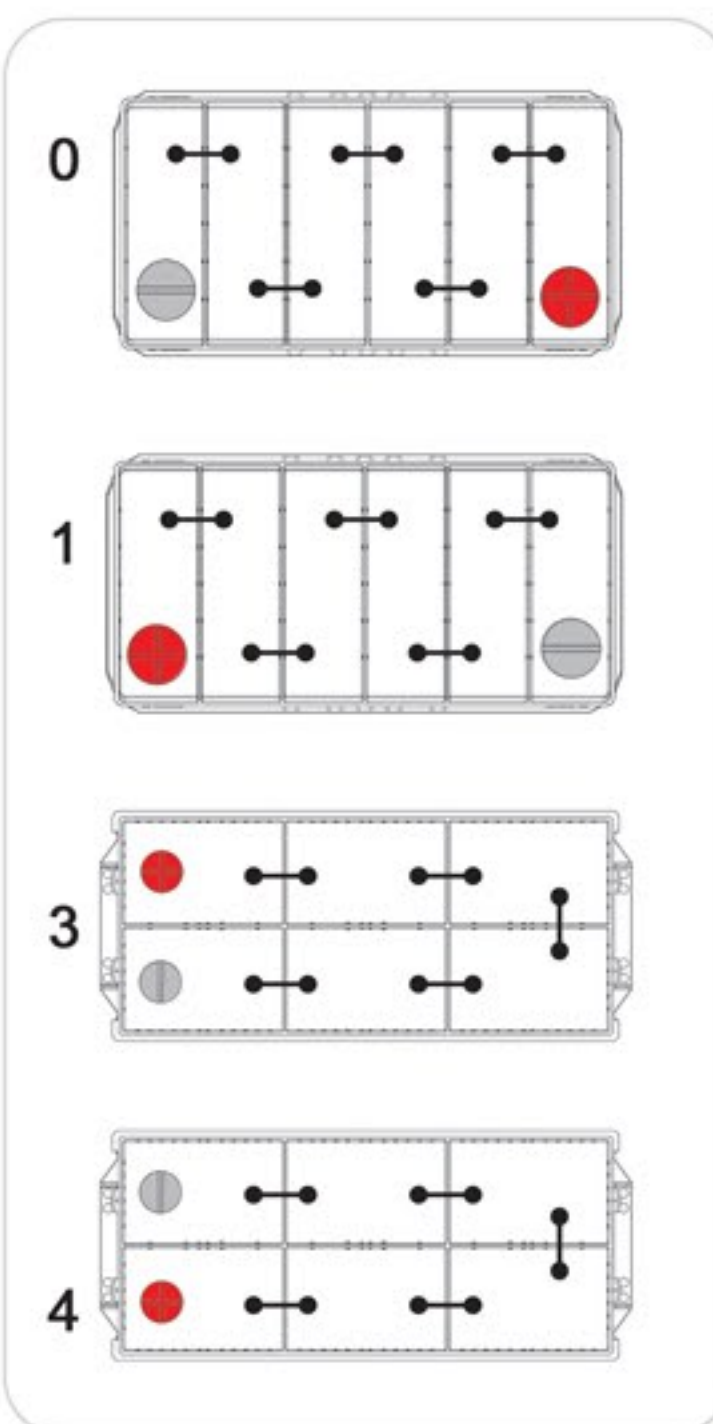
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Box	Part Number				Length	Width	Total Height			
JIS										
N50Z	50D26L	50	73	420	284	173	216	B8	A1	0
	50D26R	50	73	420	284	173	216	B8	A1	1
	65D26R	63	98	520	284	173	216	B8	A1	1
	75D26L	70	110	560	284	173	216	B8	A1	0
	75D26R	70	110	560	284	173	216	B8	A1	1
E41	120E41L(NX200-10L)	120	212	960	410	176	234	B8	A1	0
	125E41L	125	223	1020	410	176	234	B8	A1	0

Low Maintenance

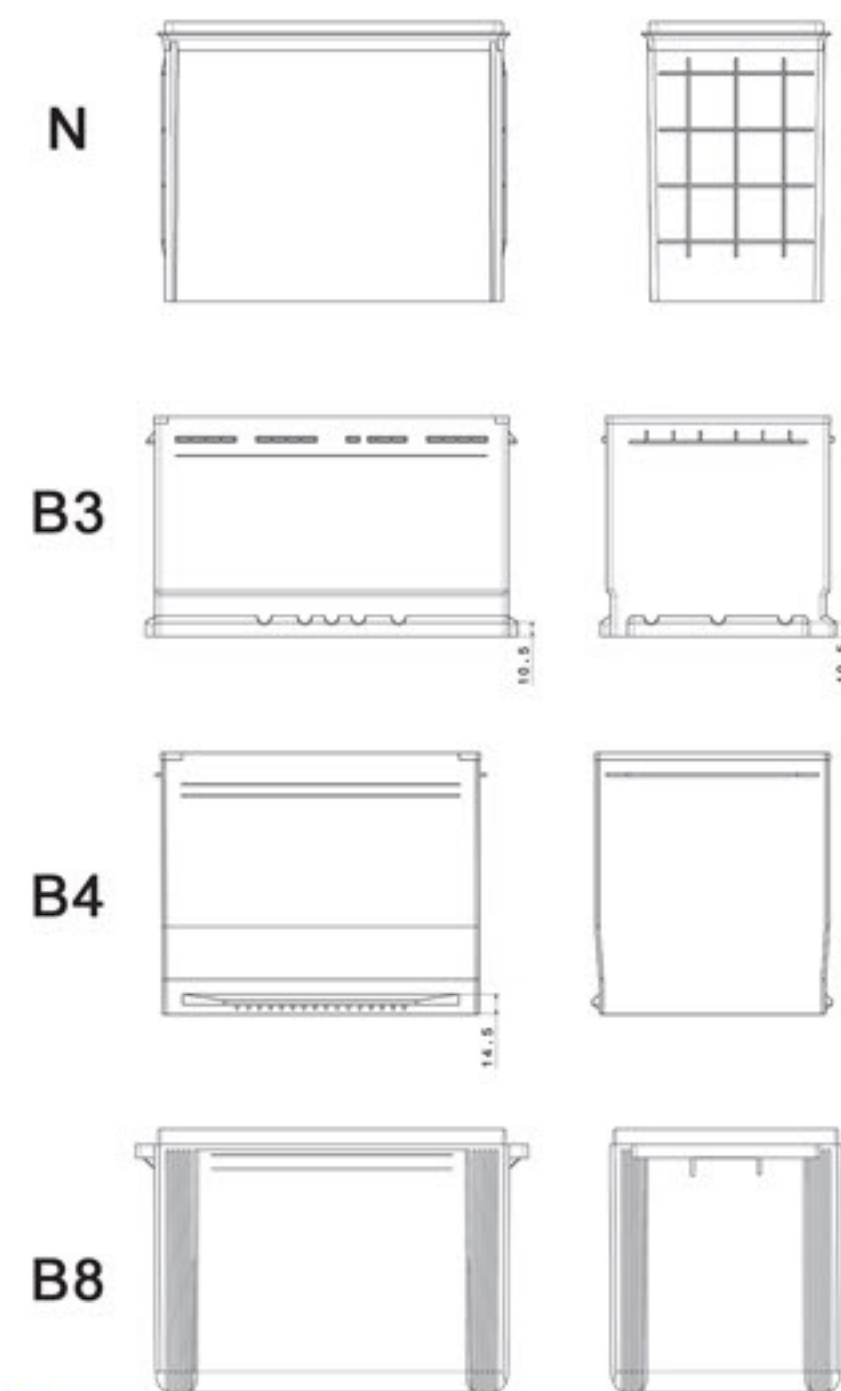
TYPE		Capacity 20 (AH) up to	Reserve Capacity (min)	CCA EN (A)	Max.Overall Dimension (mm)			Base Hold Down	Terminal Type	Terminal Layout
Box	Part Number				Length	Width	Total Height			
JIS										
D31	105D31L	100	169	820	306	175	225	B4	A1	0
	105D31R	100	169	820	306	175	225	B4	A1	1
	120D31L	108	179	860	306	175	225	B4	A1	0
	120D31R	108	179	860	306	175	225	B4	A1	1
G51	150G51R	150	278	975	513	222	217	B8	A1	3
	170G51R	170	324	1090	513	222	217	B8	A1	3
	195G51R	180	348	1170	513	222	217	B8	A1	3
	205G51R	200	383	1265	513	222	217	B8	A1	3
H51	200H51R	200	383	1000	512	278	239	B8	A1	3
	226H51R	226	451	1100	512	278	239	B8	A1	3
	245H51R	233	456	1100	512	278	239	B8	A1	3

LAYOUTS, HOLD DOWN AND TERMINALS

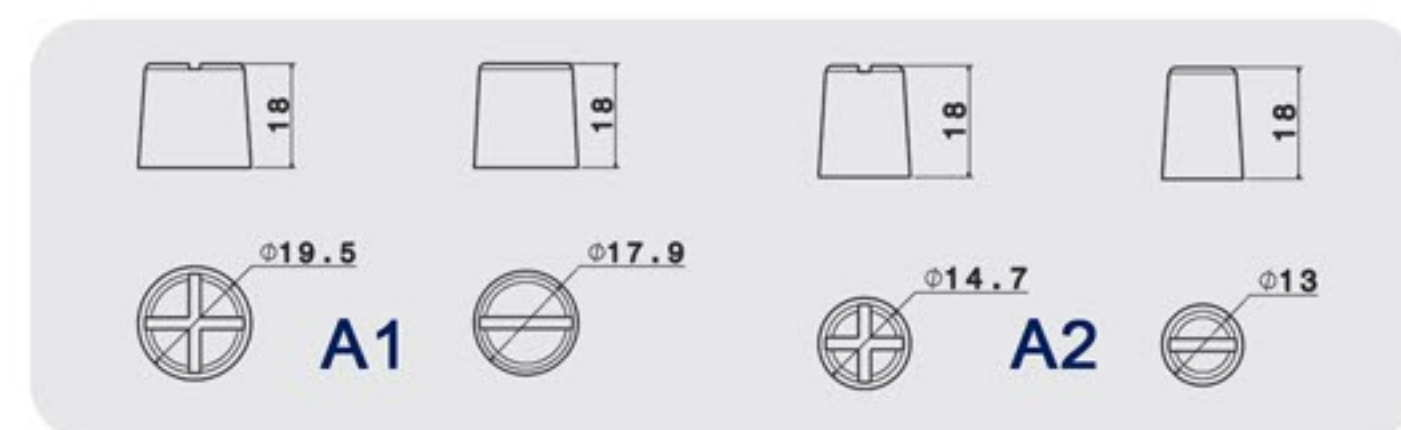
Battery Terminal Layout



Battery Base Hold Down



Battery Terminals



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