



**SEBIC**  
**BATTERY**

The logo features the word "SEBIC" in a large, bold, italicized white sans-serif font. A red lightning bolt graphic is positioned between the "I" and "C". Below "SEBIC", the word "BATTERY" is written in a smaller, bold, italicized white sans-serif font. The entire logo is centered on a red background that has a faint, semi-transparent image of a bridge. The red background is part of a larger graphic element that tapers to the right, meeting a white triangular shape against a black background.



## 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 m<sup>2</sup> 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.

**SEBIC**  
**B A T T E R Y**







DIN type



| TYPE |             | Capacity<br>20 HR (Ah) | Reserve<br>Capacity<br>(min) | CCA EN<br>(A) | Max.Overall Dimension<br>(mm) |       |              | Base<br>Hold Down | Terminal<br>Type | Terminal<br>Layout |
|------|-------------|------------------------|------------------------------|---------------|-------------------------------|-------|--------------|-------------------|------------------|--------------------|
| Box  | Part Number |                        |                              |               | Length                        | Width | Total Height |                   |                  |                    |
| DIN  |             |                        |                              |               |                               |       |              |                   |                  |                    |
| L1   | SMF54459    | 40                     | 61                           | 380           | 207                           | 175   | 190          | B3                | A1               | 0                  |
|      | SMF54507    | 45                     | 70                           | 415           | 207                           | 175   | 190          | B3                | A1               | 0                  |
|      | SMF55090    | 50                     | 79                           | 470           | 207                           | 175   | 190          | B3                | A1               | 0                  |







DIN type



| TYPE |             | Capacity<br>20 HR (Ah) | Reserve<br>Capacity<br>(min) | CCA EN<br>(A) | Max.Overall Dimension<br>(mm) |       |              | Base<br>Hold Down | Terminal<br>Type | Terminal<br>Layout |
|------|-------------|------------------------|------------------------------|---------------|-------------------------------|-------|--------------|-------------------|------------------|--------------------|
| Box  | Part Number |                        |                              |               | Length                        | Width | Total Height |                   |                  |                    |
| DIN  |             |                        |                              |               |                               |       |              |                   |                  |                    |
| L2   | SMF55018    | 50                     | 79                           | 470           | 242                           | 175   | 190          | B3                | A1               | 0                  |
|      | SMF55559    | 55                     | 88                           | 505           | 242                           | 175   | 190          | B3                | A1               | 0                  |
|      | SMF56019    | 60                     | 98                           | 560           | 242                           | 175   | 190          | B3                | A1               | 0                  |







DIN type



| TYPE |             | Capacity<br>20 HR (Ah) | Reserve<br>Capacity<br>(min) | CCA EN<br>(A) | Max.Overall Dimension<br>(mm) |       |              | Base<br>Hold Down | Terminal<br>Type | Terminal<br>Layout |
|------|-------------|------------------------|------------------------------|---------------|-------------------------------|-------|--------------|-------------------|------------------|--------------------|
| Box  | Part Number |                        |                              |               | Length                        | Width | Total Height |                   |                  |                    |
| DIN  |             |                        |                              |               |                               |       |              |                   |                  |                    |
| L3   | SMF56638    | 66                     | 110                          | 595           | 278                           | 175   | 190          | B3                | A1               | 0                  |
|      | SMF57220    | 72                     | 122                          | 660           | 278                           | 175   | 190          | B3                | A1               | 0                  |
|      | SMF57412    | 74                     | 126                          | 685           | 278                           | 175   | 190          | B3                | A1               | 0                  |







DIN type



| TYPE |             | Capacity<br>20 HR (Ah) | Reserve<br>Capacity<br>(min) | CCA EN<br>(A) | Max.Overall Dimension<br>(mm) |       |              | Base<br>Hold Down | Terminal<br>Type | Terminal<br>Layout |
|------|-------------|------------------------|------------------------------|---------------|-------------------------------|-------|--------------|-------------------|------------------|--------------------|
| Box  | Part Number |                        |                              |               | Length                        | Width | Total Height |                   |                  |                    |
| DIN  |             |                        |                              |               |                               |       |              |                   |                  |                    |
| L5   | SMF58439    | 84                     | 146                          | 775           | 377                           | 175   | 190          | B3                | A1               | 0                  |
|      | SMF59018    | 90                     | 154                          | 830           | 377                           | 175   | 190          | B3                | A1               | 0                  |
|      | SMF59485    | 94                     | 158                          | 860           | 377                           | 175   | 190          | B3                | A1               | 0                  |
|      | SMF60044    | 100                    | 179                          | 920           | 377                           | 175   | 190          | B3                | A1               | 0                  |







DIN type



| TYPE |             | Capacity<br>20 HR (AH) | Reserve<br>Capacity<br>(min) | CCA EN<br>(A) | Max.Overall Dimension<br>(mm) |       |              | Base<br>Hold Down | Terminal<br>Type | Terminal<br>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    | 190                    | 383                          | 1265          | 510                           | 222   | 232          | B8                | A1               | 3                  |
|      | SMF69065    | 190                    | 383                          | 1265          | 510                           | 222   | 232          | B8                | A1               | 4                  |







DIN type



| TYPE |             | Capacity<br>20 HR (AH) | Reserve<br>Capacity<br>(min) | CCA EN<br>(A) | Max.Overall Dimension<br>(mm) |       |              | Base<br>Hold Down | Terminal<br>Type | Terminal<br>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    | 218                    | 451                          | 1100          | 512                           | 278   | 239          | B8                | A1               | 3                  |
|      | SMF71883    | 218                    | 451                          | 1100          | 512                           | 278   | 239          | B8                | A1               | 4                  |
|      | SMF72025    | 220                    | 456                          | 1100          | 512                           | 278   | 239          | B8                | A1               | 3                  |
|      | SMF72076    | 220                    | 456                          | 1100          | 512                           | 278   | 239          | B8                | A1               | 4                  |







JIS type



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







JIS type



| TYPE |                    | Capacity<br>20 HR (AH) | Reserve<br>Capacity<br>(min) | CCA EN<br>(A) | Max.Overall Dimension<br>(mm) |       |              | Base<br>Hold Down | Terminal<br>Type | Terminal<br>Layout |
|------|--------------------|------------------------|------------------------------|---------------|-------------------------------|-------|--------------|-------------------|------------------|--------------------|
| Box  | Part Number        |                        |                              |               | Length                        | Width | Total Height |                   |                  |                    |
| JIS  |                    |                        |                              |               |                               |       |              |                   |                  |                    |
| B24  | SMF41B24LS (N40L)  | 40                     | 61                           | 350           | 238                           | 129   | 227          | N                 | A1               | 0                  |
|      | SMF41B24RS (N40)   | 40                     | 61                           | 350           | 238                           | 129   | 227          | N                 | A1               | 1                  |
|      | SMF50B24L (NS60LS) | 45                     | 70                           | 380           | 238                           | 129   | 227          | N                 | A1               | 0                  |
|      | SMF50B24R (NS60S)  | 45                     | 70                           | 380           | 238                           | 129   | 227          | N                 | A1               | 1                  |







JIS type



| TYPE |             | Capacity<br>20 HR (Ah) | Reserve<br>Capacity<br>(min) | CCA EN<br>(A) | Max.Overall Dimension<br>(mm) |       |              | Base<br>Hold Down | Terminal<br>Type | Terminal<br>Layout |
|------|-------------|------------------------|------------------------------|---------------|-------------------------------|-------|--------------|-------------------|------------------|--------------------|
| Box  | Part Number |                        |                              |               | Length                        | Width | Total Height |                   |                  |                    |
| JIS  |             |                        |                              |               |                               |       |              |                   |                  |                    |
| D23  | SMF65D23L   | 60                     | 98                           | 520           | 238                           | 178   | 225          | B4                | A1               | 0                  |
|      | SMF65D23R   | 60                     | 98                           | 520           | 238                           | 178   | 225          | B4                | A1               | 1                  |
|      | SMF75D23L   | 66                     | 110                          | 560           | 238                           | 178   | 225          | B4                | A1               | 0                  |
|      | SMF75D23R   | 66                     | 110                          | 560           | 238                           | 178   | 225          | B4                | A1               | 1                  |







JIS type



| TYPE |                      | Capacity<br>20 HR (AH) | Reserve<br>Capacity<br>(min) | CCA EN<br>(A) | Max.Overall Dimension<br>(mm) |       |              | Base<br>Hold Down | Terminal<br>Type | Terminal<br>Layout |
|------|----------------------|------------------------|------------------------------|---------------|-------------------------------|-------|--------------|-------------------|------------------|--------------------|
| Box  | Part Number          |                        |                              |               | Length                        | Width | Total Height |                   |                  |                    |
| JIS  |                      |                        |                              |               |                               |       |              |                   |                  |                    |
| D26  | SMF50D26L (N50L)     | 50                     | 73                           | 420           | 257                           | 176   | 225          | B4                | A1               | 0                  |
|      | SMF50D26R (N50)      | 50                     | 73                           | 420           | 257                           | 176   | 225          | B4                | A1               | 1                  |
|      | SMF75D26L            | 66                     | 110                          | 560           | 257                           | 176   | 225          | B4                | A1               | 0                  |
|      | SMF75D26R            | 66                     | 110                          | 560           | 257                           | 176   | 225          | B4                | A1               | 1                  |
|      | SMF80D26L (NX110-5L) | 70                     | 118                          | 620           | 257                           | 176   | 225          | B4                | A1               | 0                  |
|      | SMF80D26R (NX110-5)  | 70                     | 118                          | 620           | 257                           | 176   | 225          | B4                | A1               | 1                  |
|      | SMF90D26L            | 75                     | 128                          | 660           | 257                           | 176   | 225          | B4                | A1               | 0                  |
|      | SMF90D26R            | 75                     | 128                          | 660           | 257                           | 176   | 225          | B4                | A1               | 1                  |







| TYPE |                  | Capacity<br>20 HR (AH) | Reserve<br>Capacity<br>(min) | CCA EN<br>(A) | Max.Overall Dimension<br>(mm) |       |              | Base<br>Hold Down | Terminal<br>Type | Terminal<br>Layout |
|------|------------------|------------------------|------------------------------|---------------|-------------------------------|-------|--------------|-------------------|------------------|--------------------|
| Box  | Part Number      |                        |                              |               | Length                        | Width | Total Height |                   |                  |                    |
| JIS  |                  |                        |                              |               |                               |       |              |                   |                  |                    |
| D31  | SMF75D31L (N70L) | 70                     | 118                          | 620           | 306                           | 175   | 225          | B4                | A1               | 0                  |
|      | SMF75D31R (N70)  | 70                     | 118                          | 620           | 306                           | 175   | 225          | B4                | A1               | 1                  |
|      | SMF95D31L        | 80                     | 138                          | 660           | 306                           | 175   | 225          | B4                | A1               | 0                  |
|      | SMF95D31R        | 80                     | 138                          | 660           | 306                           | 175   | 225          | B4                | A1               | 1                  |
|      | SMF105D31L       | 90                     | 158                          | 760           | 306                           | 175   | 225          | B4                | A1               | 0                  |
|      | SMF105D31R       | 90                     | 158                          | 760           | 306                           | 175   | 225          | B4                | A1               | 1                  |
|      | SMF120D31L       | 100                    | 179                          | 860           | 306                           | 175   | 225          | B4                | A1               | 0                  |
|      | SMF120D31R       | 100                    | 179                          | 860           | 306                           | 175   | 225          | B4                | A1               | 1                  |

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| TYPE |                    | Capacity<br>20 HR (AH) | Reserve<br>Capacity<br>(min) | CCA EN<br>(A) | Max.Overall Dimension<br>(mm) |       |              | Base<br>Hold Down | Terminal<br>Type | Terminal<br>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         | 190                    | 383                          | 1265          | 510                           | 222   | 232          | B8                | A1               | 3                  |
|      | SMF205G51L         | 190                    | 383                          | 1265          | 510                           | 222   | 232          | B8                | A1               | 4                  |







JIS type



| TYPE |                    | Capacity<br>20 HR (AH) | Reserve<br>Capacity<br>(min) | CCA EN<br>(A) | Max.Overall Dimension<br>(mm) |       |              | Base<br>Hold Down | Terminal<br>Type | Terminal<br>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         | 218                    | 451                          | 1100          | 512                           | 278   | 239          | B8                | A1               | 3                  |
|      | SMF226H51L         | 218                    | 451                          | 1100          | 512                           | 278   | 239          | B8                | A1               | 4                  |
|      | SMF245H51R         | 220                    | 456                          | 1100          | 512                           | 278   | 239          | B8                | A1               | 3                  |
|      | SMF245H51L         | 220                    | 456                          | 1100          | 512                           | 278   | 239          | B8                | A1               | 4                  |





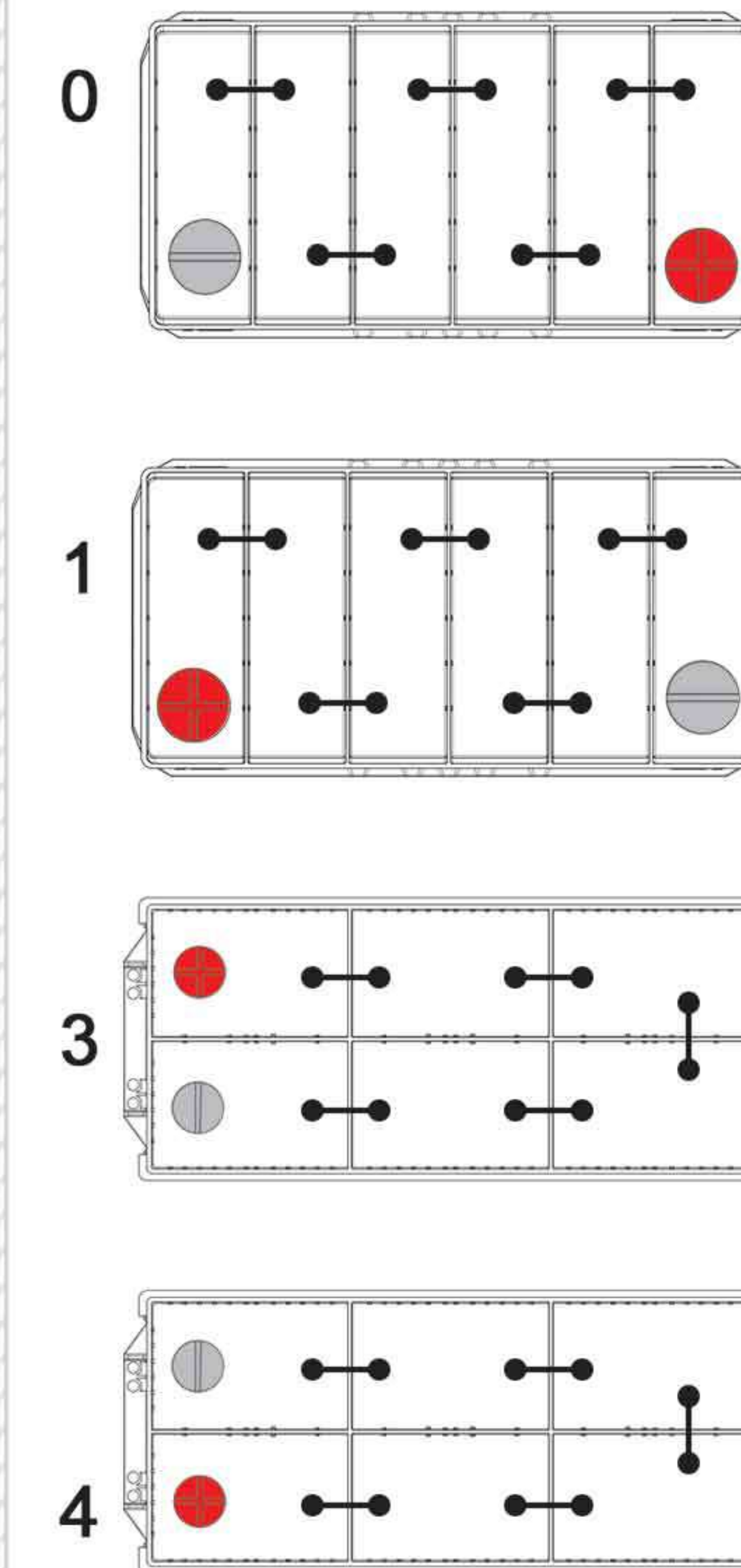


## CERTIFICATES of SBIC

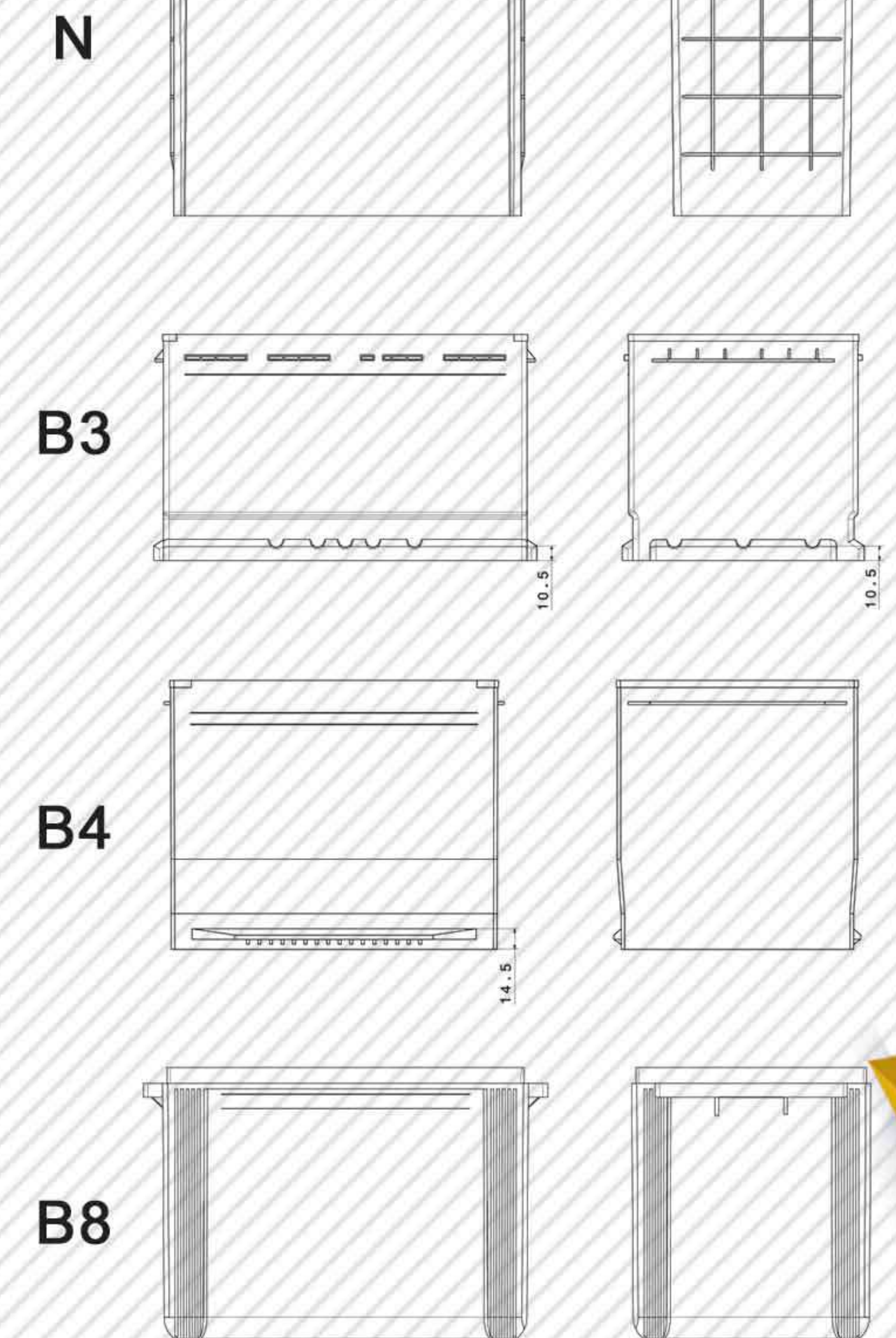


## LAYOUTS, HOLD DOWN AND TERMINALS

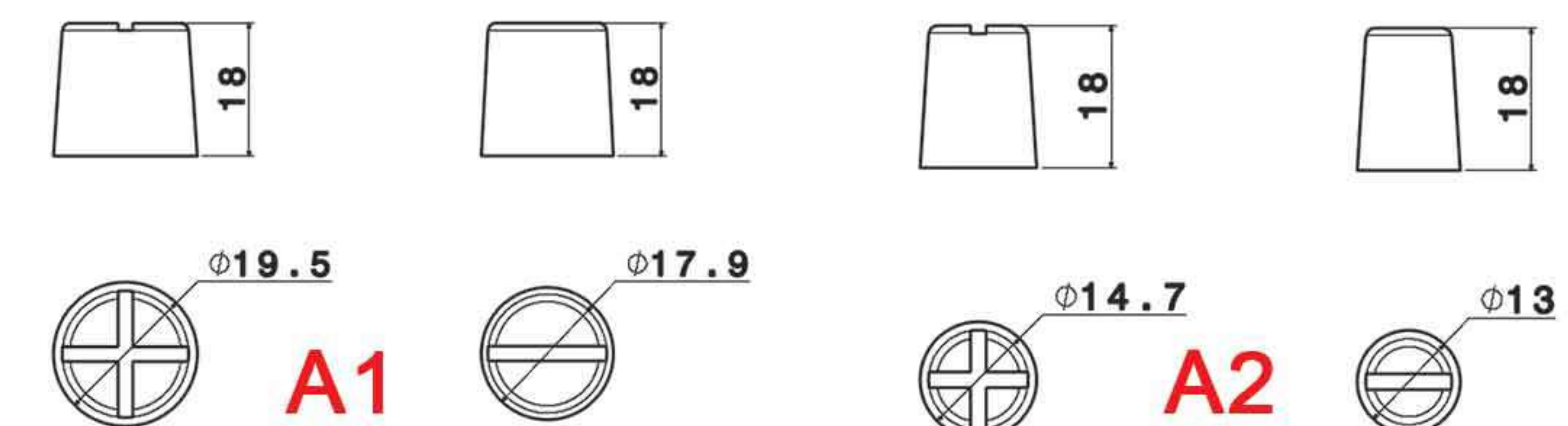
### Battery Terminal Layout



### Battery Base Hold Down



### Battery Terminals





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