

# MASTERVOLT

## SPECIFICATIONS

# 2 VOLT GEL CELLS

## MVSV series



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# 1 SPECIFICATIONS

## 1.1 PHYSICAL SPECIFICATIONS

### General

|                                    |   |
|------------------------------------|---|
| Operating temperature:             | -20°C to 45°C (-4°F to 113°F)                                 |
| Nominal operating temperature:     | 10°C to 30°C (50 °F to 86°F), recommended at 20°C (68°F)      |
| Storage temperature:               | -40°C to 55°C (-40°F to 131°F)                                |
| Material of the battery container: | Styrene-acrylnitrile-copolymer (SAN), UL classification 94 HB |

### Dimensions and weights

| Model     | Part number | Length (l)<br>Max mm | Width (b)<br>Max mm | Height (h1)<br>Max mm | Height (h2)<br>Max mm | Installed<br>length (B)<br>Max mm | Weight<br>(approx) | Terminal |
|-----------|-------------|----------------------|---------------------|-----------------------|-----------------------|-----------------------------------|--------------------|----------|
| MVSV 280  | 68000280    | 126                  | 208                 | 357                   | 399                   | 135                               | 23.0 kg            | F-M8     |
| MVSV 420  | 68000420    | 126                  | 208                 | 473                   | 515                   | 135                               | 30.0 kg            | F-M8     |
| MVSV 500  | 68000500    | 147                  | 208                 | 473                   | 515                   | 156                               | 35.0 kg            | F-M8     |
| MVSV 580  | 68000580    | 168                  | 208                 | 473                   | 515                   | 177                               | 39.0 kg            | F-M8     |
| MVSV 750  | 68000750    | 147                  | 208                 | 648                   | 690                   | 156                               | 49.0 kg            | F-M8     |
| MVSV 1000 | 68001000    | 212                  | 193                 | 648                   | 690                   | 221                               | 66.0 kg            | F-M8     |
| MVSV 1250 | 68001250    | 212                  | 235                 | 648                   | 690                   | 221                               | 80.0 kg            | F-M8     |
| MVSV 1500 | 68001500    | 212                  | 277                 | 648                   | 690                   | 221                               | 95.0 kg            | F-M8     |
| MVSV 1650 | 68001650    | 212                  | 277                 | 717                   | 759                   | 221                               | 115 kg             | F-M8     |
| MVSV 2200 | 68002200    | 216                  | 400                 | 775                   | 816                   | 225                               | 160 kg             | F-M8     |
| MVSV 2700 | 68002700    | 214                  | 489                 | 774                   | 816                   | 223                               | 198 kg             | F-M8     |

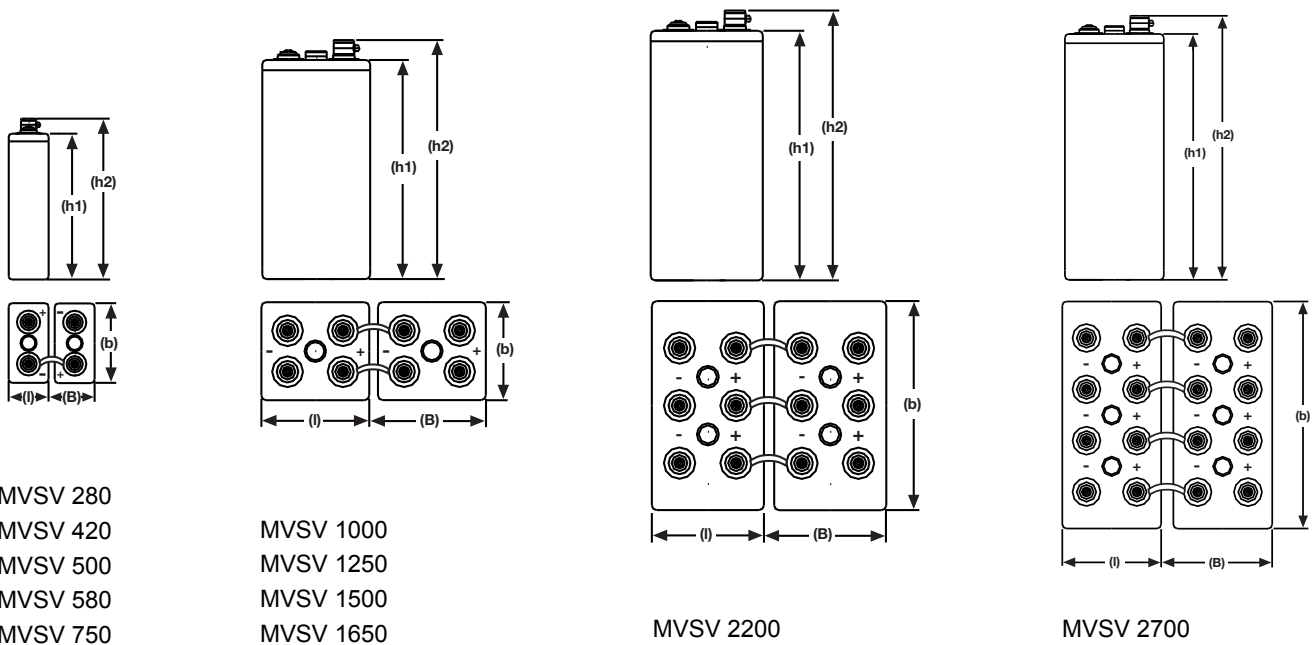


Figure 1: Drawings with terminal position (not to scale!)

## 1.2 ELECTRICAL SPECIFICATIONS

### 1.2.1 General

| Model     | Part number | Nominal voltage | Nominal capacity* | Discharge current I <sub>10</sub> * | Pole pairs | Internal resistance** | Short circuit current** |
|-----------|-------------|-----------------|-------------------|-------------------------------------|------------|-----------------------|-------------------------|
| MVSV 280  | 68000280    | 2V              | 280Ah             | 28.0 A                              | 1          | 0.79mΩ                | 2700A                   |
| MVSV 420  | 68000420    | 2V              | 416Ah             | 41.6 A                              | 1          | 0.62mΩ                | 3300A                   |
| MVSV 500  | 68000500    | 2V              | 499Ah             | 49.9 A                              | 1          | 0.53mΩ                | 3950A                   |
| MVSV 580  | 68000580    | 2V              | 582Ah             | 58.2 A                              | 1          | 0.47mΩ                | 4400A                   |
| MVSV 750  | 68000750    | 2V              | 748Ah             | 74.8 A                              | 1          | 0.48mΩ                | 4300A                   |
| MVSV 1000 | 68001000    | 2V              | 998Ah             | 99.8 A                              | 2          | 0.38mΩ                | 4850A                   |
| MVSV 1250 | 68001250    | 2V              | 1248Ah            | 125 A                               | 2          | 0.33mΩ                | 6250A                   |
| MVSV 1500 | 68001500    | 2V              | 1497Ah            | 150 A                               | 2          | 0.29mΩ                | 7850A                   |
| MVSV 1650 | 68001650    | 2V              | 1643Ah            | 164 A                               | 2          | 0.23mΩ                | 9000A                   |
| MVSV 2200 | 68002200    | 2V              | 2190Ah            | 219 A                               | 3          | 0.19mΩ                | 10750A                  |
| MVSV 2700 | 68002700    | 2V              | 2738Ah            | 274 A                               | 4          | 0.16mΩ                | 13400A                  |

\* Nominal capacity C<sub>10</sub>: 1.8V/cell @ 20°C (68°F)

\*\* According to IEC60896-22

### 1.2.2 Charge voltage settings for three step battery chargers

|                           |                                      |
|---------------------------|--------------------------------------|
| Float:                    | 2.30V/cell @ 25°C / 77°F             |
| Absorption:               | 2.38V/cell @ 25°C / 77°F (max 5 hrs) |
| Temperature compensation: | -5mV/°C/cell or -2.8mV/°F/cell       |

### 1.2.3 Final discharge voltage

| Model                          | Part number | Discharge current |                |                |                 |
|--------------------------------|-------------|-------------------|----------------|----------------|-----------------|
|                                |             | C <sub>1</sub>    | C <sub>3</sub> | C <sub>5</sub> | C <sub>10</sub> |
| MVSV 280                       | 68000280    | 154 A             | 76.0 A         | 49.8 A         | 28.0 A          |
| MVSV 420                       | 68000420    | 238 A             | 111 A          | 76.6 A         | 41.6 A          |
| MVSV 500                       | 68000500    | 286 A             | 133 A          | 91.9 A         | 49.9 A          |
| MVSV 580                       | 68000580    | 333 A             | 155 A          | 107 A          | 58.2 A          |
| MVSV 750                       | 68000750    | 429 A             | 195 A          | 135 A          | 74.8 A          |
| MVSV 1000                      | 68001000    | 572 A             | 260 A          | 180 A          | 99.8 A          |
| MVSV 1250                      | 68001250    | 715 A             | 325 A          | 225 A          | 125 A           |
| MVSV 1500                      | 68001500    | 858 A             | 390 A          | 269 A          | 150 A           |
| MVSV 1650                      | 68001650    | 992 A             | 479 A          | 309 A          | 164 A           |
| MVSV 2200                      | 68002200    | 1267 A            | 580 A          | 397 A          | 219 A           |
| MVSV 2700                      | 68002700    | 1583 A            | 725 A          | 496 A          | 274 A           |
| <b>Final discharge voltage</b> |             | <b>1.60V</b>      | <b>1.70V</b>   | <b>1.75V</b>   | <b>1.80V</b>    |

All data refer to 20°C (68°F)

### 1.2.4 Open circuit voltage versus remaining capacity

|                                     |       |       |       |       |       |       |
|-------------------------------------|-------|-------|-------|-------|-------|-------|
| Open circuit voltage                | 1.92V | 1.98V | 2.03V | 2.08V | 2.13V | 2.16V |
| Approximate state of charge (± 20%) | 0%    | 20%   | 40%   | 60%   | 80%   | 100%  |

Open circuit voltage is measured after the battery was disconnected from any load or power source for at least 24hrs.

**1.3 CONSTANT CURRENT DISCHARGE****1.90V/cell – Discharge in A @ 20°C (68°F)**

| Model     | Part number | 10min | 15min | 30min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  |
|-----------|-------------|-------|-------|-------|------|------|------|------|------|------|
| MVSV 280  | 68000280    | 180   | 158   | 134   | 95.3 | 74.5 | 57.1 | 39.0 | 26.8 | 22.9 |
| MVSV 420  | 68000420    | 244   | 231   | 187   | 143  | 112  | 90.0 | 65.3 | 44.8 | 36.7 |
| MVSV 500  | 68000500    | 293   | 277   | 224   | 172  | 134  | 108  | 78.4 | 53.8 | 44.0 |
| MVSV 580  | 68000580    | 342   | 323   | 262   | 200  | 157  | 126  | 91.4 | 62.7 | 51.4 |
| MVSV 750  | 68000750    | 270   | 258   | 243   | 214  | 167  | 138  | 102  | 71.9 | 60.3 |
| MVSV 1000 | 68001000    | 360   | 344   | 324   | 285  | 223  | 184  | 136  | 95.9 | 80.4 |
| MVSV 1250 | 68001250    | 450   | 430   | 405   | 357  | 278  | 230  | 171  | 120  | 101  |
| MVSV 1500 | 68001500    | 517   | 516   | 486   | 428  | 334  | 276  | 205  | 144  | 121  |
| MVSV 1650 | 68001650    | 518   | 518   | 507   | 420  | 312  | 261  | 205  | 155  | 129  |
| MVSV 2200 | 68002200    | 691   | 669   | 639   | 581  | 469  | 381  | 284  | 207  | 172  |
| MVSV 2700 | 68002700    | 863   | 837   | 798   | 727  | 587  | 477  | 355  | 259  | 216  |

**1.87V/cell – Discharge in A @ 20°C (68°F)**

| Model     | Part number | 10min | 15min | 30min | 1h  | 2h   | 3h   | 5h   | 8h   | 10h  |
|-----------|-------------|-------|-------|-------|-----|------|------|------|------|------|
| MVSV 280  | 68000280    | 216   | 195   | 155   | 105 | 80.9 | 61.9 | 43.4 | 30.3 | 25.6 |
| MVSV 420  | 68000420    | 308   | 284   | 223   | 163 | 119  | 96.6 | 69.4 | 47.8 | 39.6 |
| MVSV 500  | 68000500    | 370   | 341   | 268   | 196 | 143  | 116  | 83.3 | 57.4 | 47.5 |
| MVSV 580  | 68000580    | 431   | 398   | 313   | 228 | 167  | 135  | 97.2 | 66.9 | 55.4 |
| MVSV 750  | 68000750    | 340   | 327   | 305   | 248 | 190  | 154  | 113  | 78.0 | 64.5 |
| MVSV 1000 | 68001000    | 453   | 436   | 407   | 331 | 253  | 205  | 150  | 104  | 86.0 |
| MVSV 1250 | 68001250    | 567   | 545   | 508   | 413 | 317  | 257  | 188  | 130  | 108  |
| MVSV 1500 | 68001500    | 623   | 623   | 610   | 496 | 380  | 308  | 226  | 156  | 129  |
| MVSV 1650 | 68001650    | 624   | 624   | 615   | 548 | 380  | 319  | 227  | 167  | 139  |
| MVSV 2200 | 68002200    | 832   | 817   | 793   | 632 | 520  | 437  | 313  | 223  | 185  |
| MVSV 2700 | 68002700    | 1040  | 1022  | 992   | 790 | 650  | 547  | 391  | 278  | 231  |

**1.85V/cell – Discharge in A @ 20°C (68°F)**

| Model     | Part number | 10min | 15min | 30min | 1h  | 2h   | 3h   | 5h   | 8h   | 10h  |
|-----------|-------------|-------|-------|-------|-----|------|------|------|------|------|
| MVSV 280  | 68000280    | 243   | 214   | 171   | 113 | 85.1 | 65.0 | 45.4 | 31.5 | 26.6 |
| MVSV 420  | 68000420    | 332   | 308   | 249   | 176 | 124  | 101  | 71.3 | 49.1 | 40.0 |
| MVSV 500  | 68000500    | 398   | 370   | 299   | 211 | 149  | 121  | 85.6 | 58.9 | 48.5 |
| MVSV 580  | 68000580    | 465   | 431   | 349   | 246 | 174  | 141  | 100  | 68.7 | 56.6 |
| MVSV 750  | 68000750    | 389   | 368   | 336   | 269 | 202  | 165  | 119  | 82.1 | 67.6 |
| MVSV 1000 | 68001000    | 519   | 491   | 448   | 359 | 269  | 220  | 159  | 109  | 90.1 |
| MVSV 1250 | 68001250    | 648   | 613   | 560   | 448 | 337  | 275  | 199  | 137  | 113  |
| MVSV 1500 | 68001500    | 701   | 701   | 672   | 538 | 404  | 330  | 238  | 164  | 135  |
| MVSV 1650 | 68001650    | 702   | 702   | 683   | 597 | 431  | 339  | 252  | 181  | 150  |
| MVSV 2200 | 68002200    | 1031  | 972   | 864   | 680 | 555  | 463  | 335  | 241  | 200  |
| MVSV 2700 | 68002700    | 1288  | 1215  | 1080  | 850 | 693  | 578  | 419  | 302  | 249  |

**1.83V/cell – Discharge in A @ 20°C (68°F)**

| Model     | Part number | 10min | 15min | 30min | 1h  | 2h   | 3h   | 5h   | 8h   | 10h  |
|-----------|-------------|-------|-------|-------|-----|------|------|------|------|------|
| MVSV 280  | 68000280    | 261   | 228   | 185   | 122 | 89.3 | 68.6 | 47.5 | 32.8 | 27.5 |
| MVSV 420  | 68000420    | 350   | 337   | 265   | 187 | 130  | 104  | 72.9 | 49.8 | 40.9 |
| MVSV 500  | 68000500    | 420   | 404   | 318   | 224 | 156  | 125  | 87.5 | 59.8 | 49.1 |
| MVSV 580  | 68000580    | 490   | 472   | 371   | 262 | 182  | 146  | 102  | 69.7 | 57.3 |
| MVSV 750  | 68000750    | 421   | 404   | 365   | 290 | 216  | 175  | 125  | 86.3 | 70.4 |
| MVSV 1000 | 68001000    | 561   | 539   | 487   | 387 | 288  | 233  | 167  | 115  | 93.9 |
| MVSV 1250 | 68001250    | 702   | 673   | 608   | 483 | 360  | 292  | 208  | 144  | 117  |
| MVSV 1500 | 68001500    | 755   | 755   | 716   | 580 | 432  | 350  | 250  | 173  | 141  |
| MVSV 1650 | 68001650    | 756   | 756   | 717   | 645 | 480  | 374  | 268  | 190  | 157  |
| MVSV 2200 | 68002200    | 1123  | 1077  | 944   | 733 | 589  | 497  | 358  | 254  | 210  |
| MVSV 2700 | 68002700    | 1403  | 1347  | 1180  | 917 | 737  | 622  | 447  | 317  | 262  |

### 1.80V/cell – Discharge in A @ 20°C (68°F)

| Model     | Part number | 10min | 15min | 30min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  |
|-----------|-------------|-------|-------|-------|------|------|------|------|------|------|
| MVSV 280  | 68000280    | 290   | 245   | 203   | 133  | 94.5 | 72.5 | 49.0 | 33.3 | 28.0 |
| MVSV 420  | 68000420    | 397   | 364   | 280   | 201  | 135  | 107  | 75.1 | 50.8 | 41.6 |
| MVSV 500  | 68000500    | 476   | 437   | 336   | 241  | 162  | 128  | 90.1 | 61.0 | 49.9 |
| MVSV 580  | 68000580    | 556   | 510   | 392   | 281  | 189  | 149  | 105  | 71.1 | 58.2 |
| MVSV 750  | 68000750    | 478   | 458   | 388   | 314  | 228  | 182  | 131  | 90.5 | 74.8 |
| MVSV 1000 | 68001000    | 637   | 611   | 517   | 419  | 304  | 243  | 175  | 121  | 99.8 |
| MVSV 1250 | 68001250    | 797   | 763   | 647   | 523  | 380  | 303  | 218  | 151  | 125  |
| MVSV 1500 | 68001500    | 858   | 858   | 776   | 628  | 456  | 364  | 262  | 181  | 150  |
| MVSV 1650 | 68001650    | 859   | 859   | 808   | 694  | 526  | 410  | 287  | 199  | 164  |
| MVSV 2200 | 68002200    | 1279  | 1197  | 1076  | 863  | 657  | 531  | 378  | 266  | 219  |
| MVSV 2700 | 68002700    | 1598  | 1497  | 1345  | 1078 | 822  | 663  | 473  | 332  | 274  |

### 1.75V/cell – Discharge in A @ 20°C (68°F)

| Model     | Part number | 10min | 15min | 30min | 1h   | 2h  | 3h   | 5h   | 8h   | 10h  |
|-----------|-------------|-------|-------|-------|------|-----|------|------|------|------|
| MVSV 280  | 68000280    | 331   | 286   | 228   | 144  | 100 | 75.4 | 49.8 | 33.8 | 28.3 |
| MVSV 420  | 68000420    | 423   | 389   | 300   | 215  | 139 | 109  | 76.6 | 51.8 | 42.6 |
| MVSV 500  | 68000500    | 508   | 467   | 360   | 258  | 167 | 131  | 91.9 | 62.2 | 51.1 |
| MVSV 580  | 68000580    | 592   | 545   | 420   | 301  | 195 | 153  | 107  | 72.5 | 59.6 |
| MVSV 750  | 68000750    | 561   | 534   | 463   | 354  | 240 | 190  | 135  | 92.2 | 75.9 |
| MVSV 1000 | 68001000    | 748   | 712   | 617   | 472  | 320 | 253  | 180  | 123  | 101  |
| MVSV 1250 | 68001250    | 935   | 890   | 772   | 590  | 400 | 317  | 225  | 154  | 127  |
| MVSV 1500 | 68001500    | 1048  | 1048  | 926   | 708  | 480 | 380  | 269  | 184  | 152  |
| MVSV 1650 | 68001650    | 1049  | 1049  | 982   | 777  | 585 | 452  | 309  | 209  | 172  |
| MVSV 2200 | 68002200    | 1356  | 1313  | 1237  | 1012 | 712 | 567  | 397  | 278  | 229  |
| MVSV 2700 | 68002700    | 1695  | 1642  | 1547  | 1265 | 890 | 708  | 496  | 348  | 287  |

### 1.70V/cell – Discharge in A @ 20°C (68°F)

| Model     | Part number | 10min | 15min | 30min | 1h   | 2h  | 3h   | 5h   | 8h   | 10h  |
|-----------|-------------|-------|-------|-------|------|-----|------|------|------|------|
| MVSV 280  | 68000280    | 363   | 323   | 251   | 150  | 102 | 76.0 | 50.3 | 34.1 | 28.4 |
| MVSV 420  | 68000420    | 468   | 425   | 334   | 220  | 142 | 111  | 78.2 | 52.4 | 43.0 |
| MVSV 500  | 68000500    | 562   | 510   | 401   | 264  | 170 | 133  | 93.8 | 62.9 | 51.6 |
| MVSV 580  | 68000580    | 655   | 595   | 468   | 308  | 199 | 155  | 109  | 73.4 | 60.2 |
| MVSV 750  | 68000750    | 639   | 615   | 527   | 388  | 252 | 195  | 136  | 92.7 | 76.4 |
| MVSV 1000 | 68001000    | 852   | 820   | 703   | 517  | 336 | 260  | 181  | 124  | 102  |
| MVSV 1250 | 68001250    | 1065  | 1025  | 878   | 647  | 420 | 325  | 226  | 155  | 127  |
| MVSV 1500 | 68001500    | 1267  | 1230  | 1054  | 776  | 504 | 390  | 271  | 185  | 153  |
| MVSV 1650 | 68001650    | 1268  | 1260  | 1135  | 903  | 623 | 479  | 322  | 222  | 176  |
| MVSV 2200 | 68002200    | 1557  | 1480  | 1365  | 1140 | 753 | 580  | 406  | 285  | 234  |
| MVSV 2700 | 68002700    | 1947  | 1850  | 1707  | 1425 | 942 | 725  | 507  | 356  | 293  |

### 1.65V/cell – Discharge in A @ 20°C (68°F)

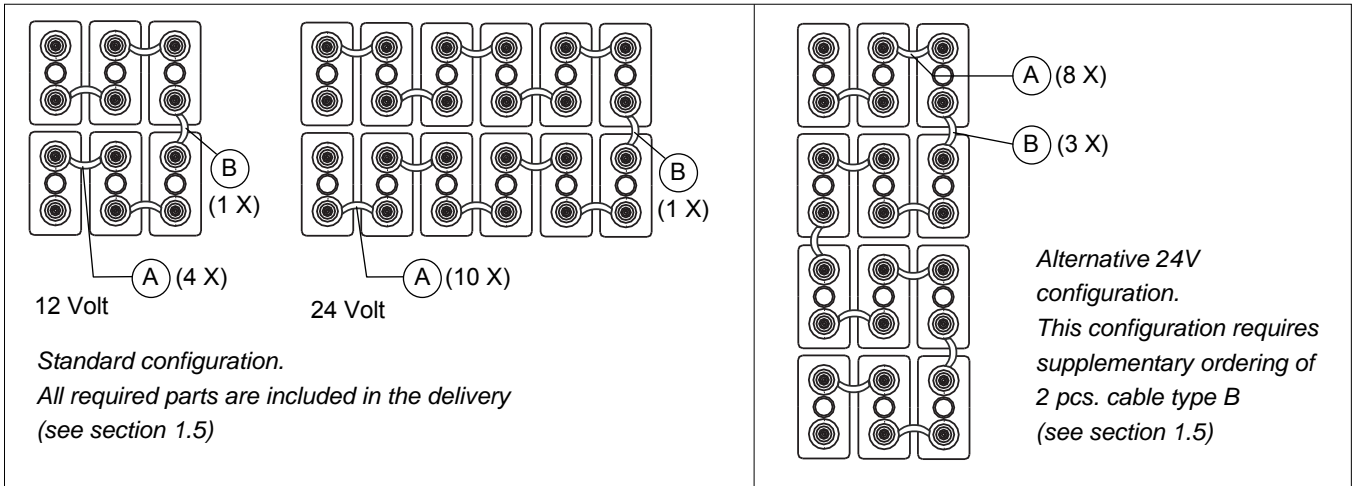
| Model     | Part number | 10min | 15min | 30min | 1h   | 2h  | 3h   | 5h   | 8h   | 10h  |
|-----------|-------------|-------|-------|-------|------|-----|------|------|------|------|
| MVSV 280  | 68000280    | 393   | 348   | 265   | 153  | 103 | 76.3 | 50.5 | 34.4 | 28.5 |
| MVSV 420  | 68000420    | 488   | 458   | 354   | 230  | 144 | 112  | 79.3 | 52.8 | 43.4 |
| MVSV 500  | 68000500    | 586   | 550   | 425   | 276  | 173 | 134  | 95.2 | 63.4 | 52.1 |
| MVSV 580  | 68000580    | 683   | 641   | 496   | 322  | 202 | 157  | 111  | 73.9 | 60.8 |
| MVSV 750  | 68000750    | 715   | 696   | 583   | 411  | 255 | 197  | 136  | 93.2 | 76.8 |
| MVSV 1000 | 68001000    | 953   | 928   | 777   | 548  | 340 | 262  | 182  | 124  | 102  |
| MVSV 1250 | 68001250    | 1192  | 1160  | 972   | 685  | 425 | 328  | 227  | 155  | 128  |
| MVSV 1500 | 68001500    | 1430  | 1392  | 1166  | 822  | 510 | 394  | 272  | 186  | 154  |
| MVSV 1650 | 68001650    | 1463  | 1446  | 1249  | 960  | 645 | 491  | 328  | 225  | 178  |
| MVSV 2200 | 68002200    | 1760  | 1608  | 1476  | 1208 | 777 | 596  | 413  | 289  | 238  |
| MVSV 2700 | 68002700    | 2200  | 2010  | 1845  | 1510 | 972 | 745  | 516  | 361  | 297  |

**1.60V/cell – Discharge in A @ 20°C (68°F)**

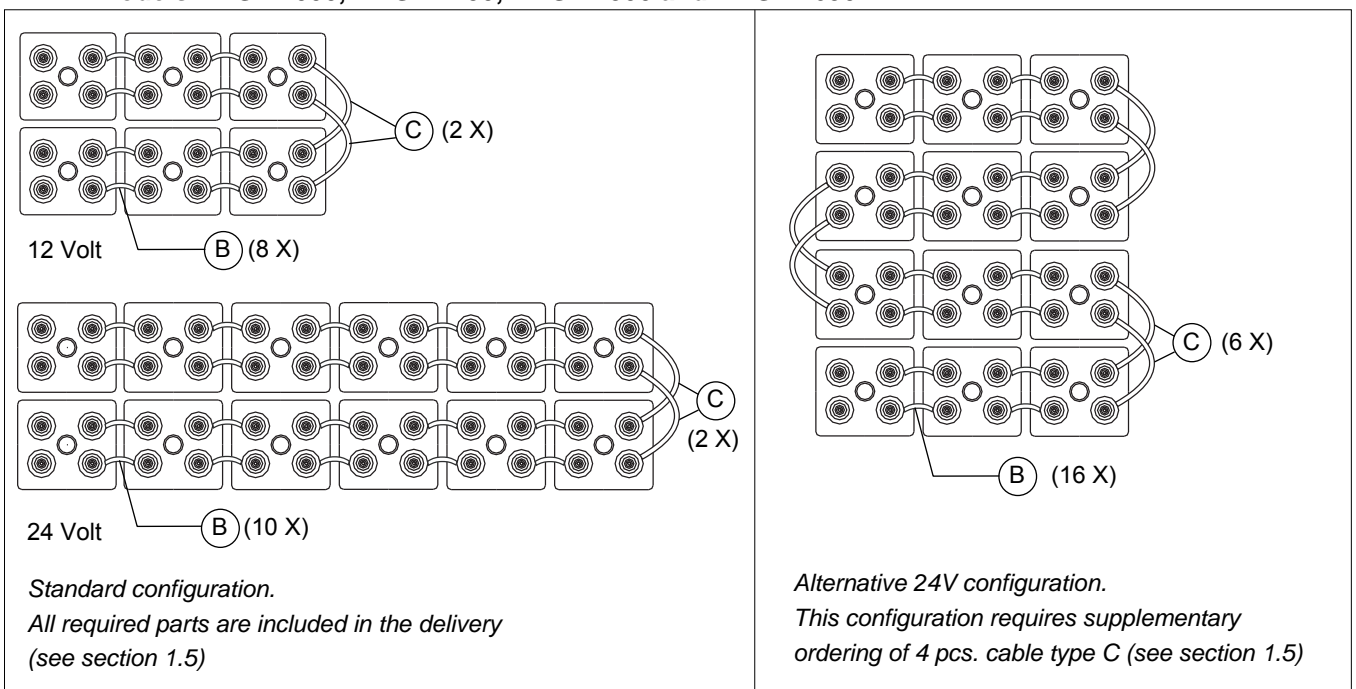
| Model     | Part number | 10min | 15min | 30min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  |
|-----------|-------------|-------|-------|-------|------|------|------|------|------|------|
| MVSV 280  | 68000280    | 408   | 375   | 278   | 154  | 104  | 76.5 | 50.8 | 34.5 | 28.6 |
| MVSV 420  | 68000420    | 500   | 478   | 382   | 238  | 146  | 113  | 80.2 | 53.2 | 43.8 |
| MVSV 500  | 68000500    | 600   | 574   | 458   | 286  | 175  | 136  | 96.2 | 63.8 | 52.6 |
| MVSV 580  | 68000580    | 700   | 669   | 535   | 333  | 204  | 158  | 112  | 74.5 | 61.3 |
| MVSV 750  | 68000750    | 786   | 767   | 632   | 429  | 260  | 198  | 137  | 93.6 | 77.2 |
| MVSV 1000 | 68001000    | 1048  | 1023  | 843   | 572  | 347  | 264  | 182  | 125  | 103  |
| MVSV 1250 | 68001250    | 1310  | 1278  | 1053  | 715  | 433  | 330  | 228  | 156  | 129  |
| MVSV 1500 | 68001500    | 1572  | 1534  | 1264  | 858  | 520  | 396  | 273  | 187  | 154  |
| MVSV 1650 | 68001650    | 1604  | 1480  | 1295  | 992  | 662  | 497  | 332  | 226  | 180  |
| MVSV 2200 | 68002200    | 2059  | 1872  | 1664  | 1267 | 807  | 607  | 417  | 292  | 240  |
| MVSV 2700 | 68002700    | 2573  | 2340  | 2080  | 1583 | 1008 | 758  | 522  | 365  | 300  |

**1.4 INSTALLATION CONFIGURATIONS**

**1.4.1 Models MVSV 280, MVSV 420, MVSV 500, MVSV 580 and MVSV 750**

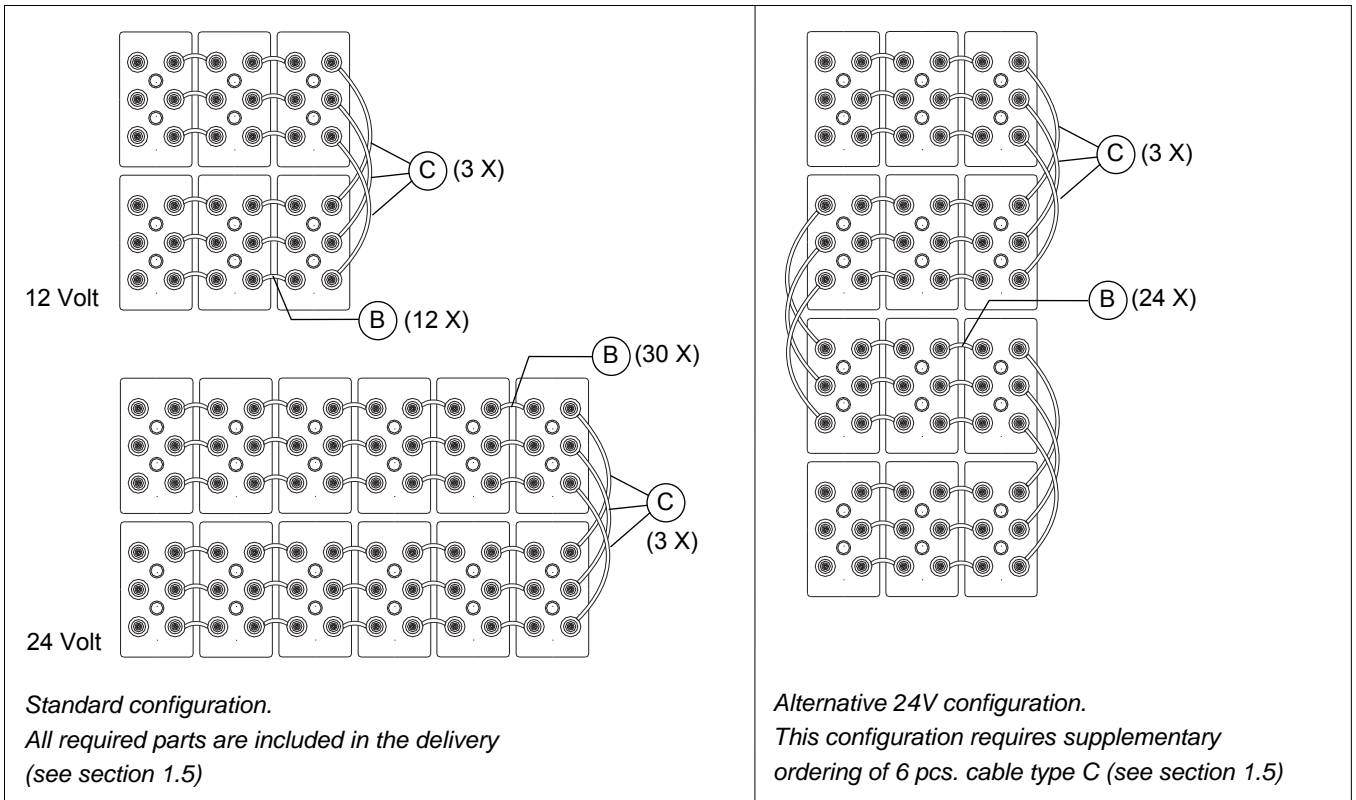


**1.4.2 Models MVSV 1000, MVSV 1250, MVSV 1500 and MVSV 1650**

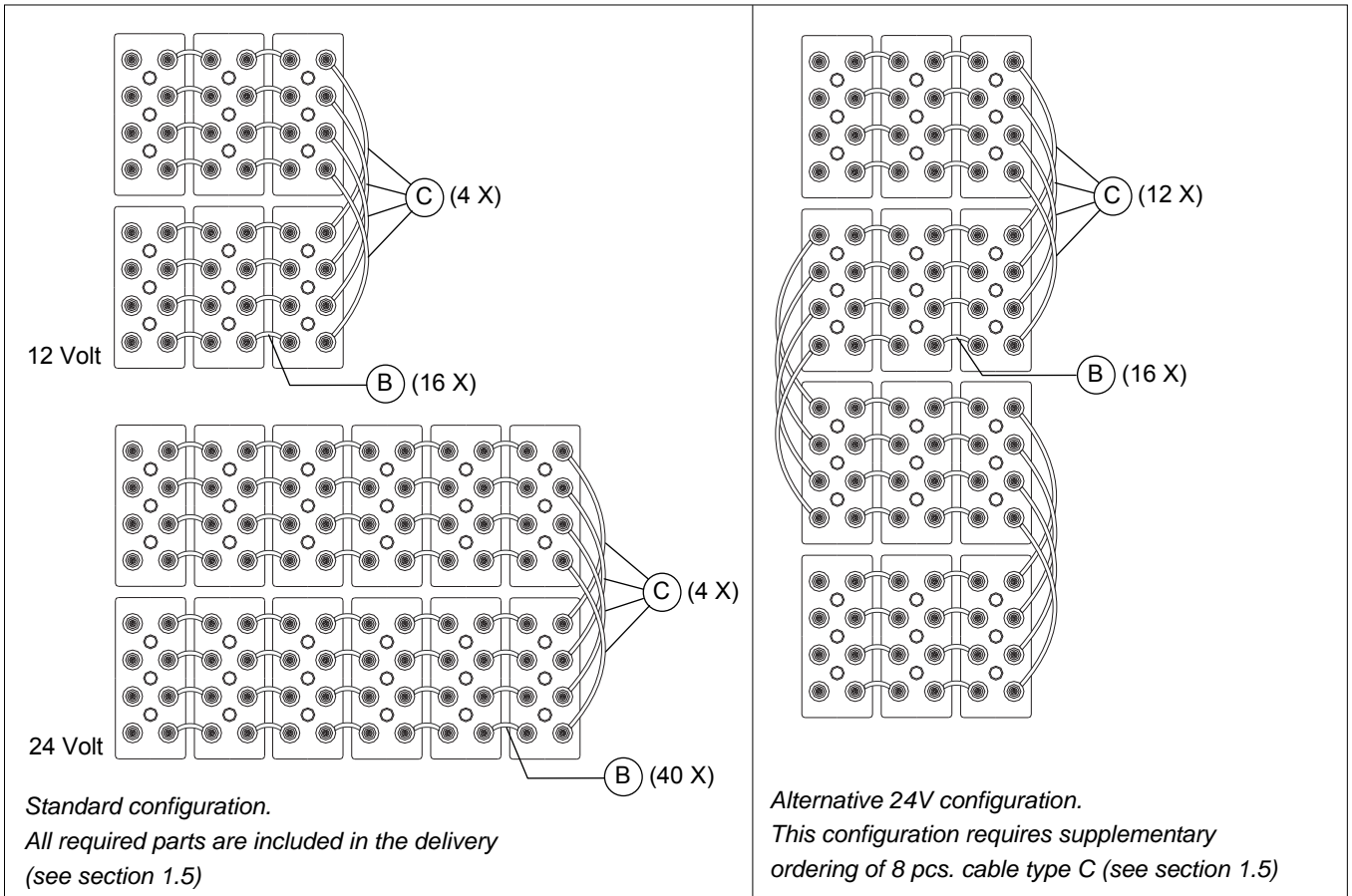




### 1.4.3 Model MVSV 2200



### 1.4.4 Model MVSV 2700



### 1.5 ORDERING INFORMATION

Below parts are standard included in the delivery. Contents of the delivery may differ due to special agreements.

| Part number | Description                                      | Cable type* |              |               |              |               |              |               |              |               |              |               |               |                |               |                |               |                |               |                |               |                |               |                |    |    |    |    |
|-------------|--|-------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----|----|----|----|
|             |  |             | 6 x MVSV 280 | 12 x MVSV 280 | 6 x MVSV 420 | 12 x MVSV 420 | 6 x MVSV 500 | 12 x MVSV 500 | 6 x MVSV 580 | 12 x MVSV 580 | 6 x MVSV 750 | 12 x MVSV 750 | 6 x MVSV 1000 | 12 x MVSV 1000 | 6 x MVSV 1250 | 12 x MVSV 1250 | 6 x MVSV 1500 | 12 x MVSV 1500 | 6 x MVSV 1650 | 12 x MVSV 1650 | 6 x MVSV 2200 | 12 x MVSV 2200 | 6 x MVSV 2700 | 12 x MVSV 2700 |    |    |    |    |
| 67909016    | Battery Cable 70mm2, L = 135 mm                  | A           | 4            | 10            | 4            | 10            |              |               |              |               |              |               |               |                |               |                |               |                |               |                |               |                |               |                |    |    |    |    |
| 67909017    | Battery Cable 70mm2, L = 155 mm                  | A           |              |               |              |               | 4            | 10            |              |               |              |               |               |                |               |                |               |                |               |                |               |                |               |                |    |    |    |    |
| 67909025    | Battery Cable 70mm2, L = 165 mm                  | B           | 1            | 1             | 1            | 1             | 1            | 1             |              |               |              |               | 8             | 20             | 8             | 20             |               |                |               |                |               |                |               |                |    |    |    |    |
| 67909024    | Battery Cable 70mm2, L = 175 mm                  | A           |              |               |              |               |              |               | 4            | 10            |              |               |               |                |               |                |               |                |               |                |               |                |               |                |    |    |    |    |
| 67909023    | Battery Cable 70mm2, L = 230 mm                  | B           |              |               |              |               |              |               | 1            | 1             |              |               |               |                |               |                |               |                |               |                |               |                |               |                |    |    |    |    |
| 67909026    | Battery Cable 70mm2, L = 330 mm                  | C           |              |               |              |               |              |               |              |               |              | 2             | 2             | 2              | 2             |                |               |                |               |                |               |                |               |                |    |    |    |    |
| 67909027    | Battery Cable 95mm2, L = 115 mm                  | B           |              |               |              |               |              |               |              |               |              |               |               |                |               |                |               |                |               |                |               | 12             | 30            | 16             | 40 |    |    |    |
| 67909021    | Battery Cable 95mm2, L = 155 mm                  | A           |              |               |              |               |              |               |              |               |              | 4             | 10            |                |               |                |               |                |               |                |               |                |               |                |    |    |    |    |
| 67909018    | Battery Cable 95mm2, L = 190 mm                  | B           |              |               |              |               |              |               |              |               | 1            | 1             |               |                |               |                | 8             | 20             | 8             | 20             |               |                |               |                |    |    |    |    |
| 67909028    | Battery Cable 95mm2, L = 400 mm                  | C           |              |               |              |               |              |               |              |               |              |               |               |                |               |                | 2             | 2              | 2             | 2              |               |                |               |                |    |    |    |    |
| 67909019    | Battery Cable 95mm2, L = 580 mm                  | C           |              |               |              |               |              |               |              |               |              |               |               |                |               |                |               |                |               |                |               | 3              | 3             | 4              | 4  |    |    |    |
| 67909100    | Cover for connector positive                     |             | 5            | 11            | 5            | 11            | 5            | 11            | 5            | 11            | 5            | 11            | 5             | 11             | 10            | 22             | 10            | 22             | 10            | 22             | 10            | 22             | 30            | 33             | 20 | 44 |    |    |
| 67909102    | Cover for connector negative, with hole          |             | 5            | 11            | 5            | 11            | 5            | 11            | 5            | 11            | 5            | 11            | 5             | 11             | 10            | 22             | 10            | 22             | 10            | 22             | 10            | 22             | 30            | 33             | 20 | 44 |    |    |
| 67909104    | Screw M8 x 18 for connector                      |             | 12           | 24            | 12           | 24            | 12           | 24            | 12           | 24            | 12           | 24            | 12            | 24             | 24            | 48             | 24            | 48             | 24            | 48             | 24            | 48             | 24            | 48             | 36 | 72 | 48 | 96 |
| 67909105    | Spring washer B8 for connector                   |             | 12           | 24            | 12           | 24            | 12           | 24            | 12           | 24            | 12           | 24            | 12            | 24             | 24            | 48             | 24            | 48             | 24            | 48             | 24            | 48             | 24            | 48             | 36 | 72 | 48 | 96 |
| 67909106    | Angle for end connector                          |             |              |               |              |               |              |               |              |               |              |               |               | 4              | 4             | 4              | 4             | 4              | 4             | 4              | 4             | 4              | 6             | 6              | 8  | 8  |    |    |
| 67909107    | Cover for angle rubber                           |             |              |               |              |               |              |               |              |               |              |               |               | 4              | 4             | 4              | 4             | 4              | 4             | 4              | 4             | 4              | 6             | 6              | 8  | 8  |    |    |
| 67909206    | Plate for end connector 50x5x80 mm               |             |              |               |              |               |              |               |              |               |              |               |               | 2              | 2             |                |               |                |               |                |               |                |               |                |    |    |    |    |
| 67909201    | Plate for end connector 50x5x110 mm              |             |              |               |              |               |              |               |              |               |              |               |               |                |               | 2              | 2             |                |               |                |               |                |               |                |    |    |    |    |
| 67909202    | Plate for end connector 50x5x140 mm              |             |              |               |              |               |              |               |              |               |              |               |               |                |               |                |               | 2              | 2             | 2              | 2             |                |               |                |    |    |    |    |
| 67909208    | Plate for end connector 50x5x220 mm              |             |              |               |              |               |              |               |              |               |              |               |               |                |               |                |               |                |               |                |               | 2              | 2             |                |    |    |    |    |
| 67909209    | Plate for end connector 50x5x330 mm              |             |              |               |              |               |              |               |              |               |              |               |               |                |               |                |               |                |               |                |               |                |               |                | 2  | 2  |    |    |
| 67909104    | Screw M8x25 for connector                        |             |              |               |              |               |              |               |              |               |              |               |               | 4              | 4             | 4              | 4             | 4              | 4             | 4              | 4             | 4              | 6             | 6              | 8  | 8  |    |    |
| 67909108    | Hex nut M8 for end connector                     |             |              |               |              |               |              |               |              |               |              |               |               | 4              | 4             | 4              | 4             | 4              | 4             | 4              | 4             | 4              | 6             | 6              | 8  | 8  |    |    |
| 67909109    | Washer B 8, 4 for end connector                  |             |              |               |              |               |              |               |              |               |              |               |               | 4              | 4             | 4              | 4             | 4              | 4             | 4              | 4             | 4              | 6             | 6              | 8  | 8  |    |    |
| 67909110    | Spring Washer B8 for connector                   |             |              |               |              |               |              |               |              |               |              |               |               | 4              | 4             | 4              | 4             | 4              | 4             | 4              | 4             | 4              | 6             | 6              | 8  | 8  |    |    |
| 67909112    | Insulation for end connec. - transparent plastic |             |              |               |              |               |              |               |              |               |              |               |               | 2              | 2             | 2              | 2             | 2              | 2             | 2              | 2             | 2              | 2             | 2              | 2  | 2  |    |    |
| 67909101    | User's manual                                    |             | 1            | 1             | 1            | 1             | 1            | 1             | 1            | 1             | 1            | 1             | 1             | 1              | 1             | 1              | 1             | 1              | 1             | 1              | 1             | 1              | 1             | 1              | 1  | 1  |    |    |

\* See section 1.4

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