



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) Max mm | Width (b) Max mm | Height (h1) Max mm | Height (h2) Max mm | Installed length (B) Max mm | Weight (approx) | Terminal |
|-----------|-------------|----------------------|---------------------|-----------------------|-----------------------|-----------------------------------|--------------------|----------|
| MVSV 280 | 68000280 | 125 | 207 | 357 | 401 | 134 | 22kg | F-M8 |
| MVSV 420 | 68000420 | 125 | 207 | 473 | 517 | 134 | 32kg | F-M8 |
| MVSV 500 | 68000500 | 146 | 207 | 473 | 517 | 155 | 37kg | F-M8 |
| MVSV 580 | 68000580 | 167 | 207 | 473 | 517 | 176 | 42kg | F-M8 |
| MVSV 750 | 68000750 | 146 | 207 | 648 | 693 | 155 | 50kg | F-M8 |
| MVSV 1000 | 68001000 | 211 | 192 | 648 | 693 | 210 | 68kg | F-M8 |
| MVSV 1250 | 68001250 | 211 | 234 | 648 | 693 | 220 | 82kg | F-M8 |
| MVSV 1500 | 68001500 | 211 | 276 | 648 <td 693 | 220 | 98kg | F-M8 | |
| MVSV 1650 | 68001650 | 211 | 276 | 798 | 843 | 220 | 112kg | F-M8 |
| MVSV 2200 | 68002200 | 214 | 399 | 775 | 819 | 223 | 153kg | F-M8 |
| MVSV 2700 | 68002700 | 214 | 488 | 774 | 819 | 222 | 196kg | F-M8 |

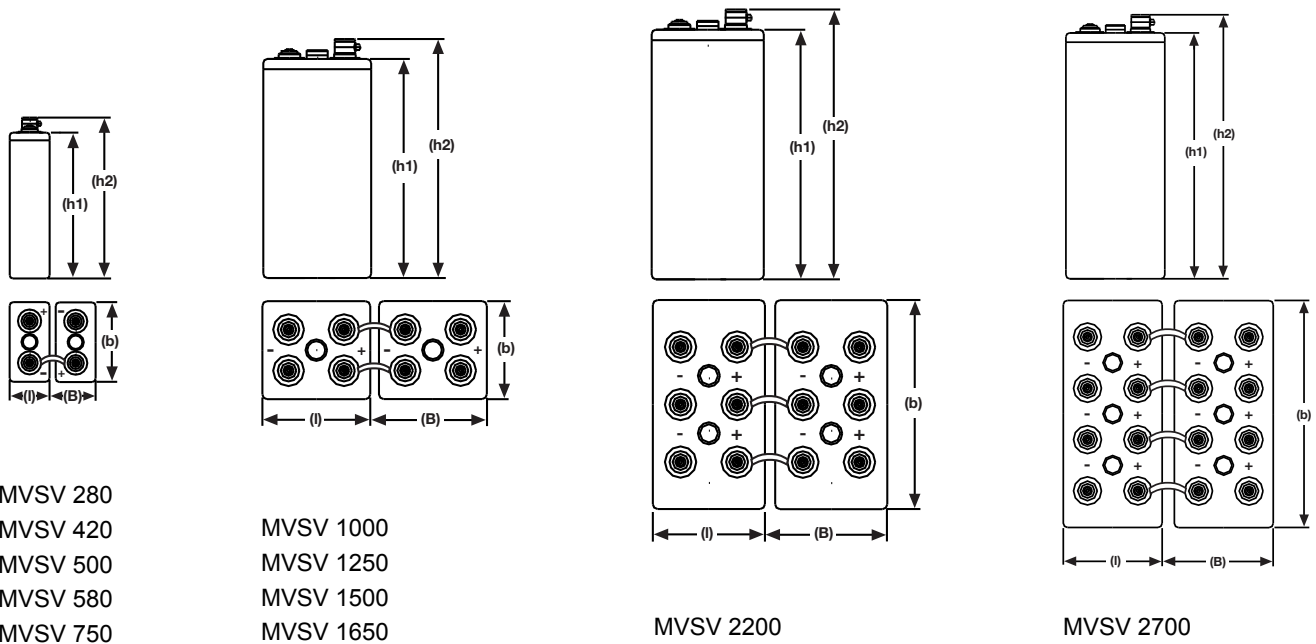


Figure 1: Drawings with terminal position (not to scale!)

1.2 ELECTRICAL SPECIFICATIONS

1.2.1 General

| Model | Part number | Nominal voltage | Nominal capacity* | Discharge current I ₁₀ * | Pole pairs | Internal resistance** | Short circuit current** |
|-----------|-------------|-----------------|-------------------|-------------------------------------|------------|-----------------------|-------------------------|
| MVSV 280 | 68000280 | 2V | 280Ah | 28.0A | 1 | 0.79mΩ | 2700A |
| MVSV 420 | 68000420 | 2V | 416Ah | 41.6A | 1 | 0.62mΩ | 3310A |
| MVSV 500 | 68000500 | 2V | 499Ah | 49.9A | 1 | 0.53mΩ | 3930A |
| MVSV 580 | 68000580 | 2V | 582Ah | 58.2A | 1 | 0.47mΩ | 4370A |
| MVSV 750 | 68000750 | 2V | 748Ah | 74.8A | 1 | 0.48mΩ | 4290A |
| MVSV 1000 | 68001000 | 2V | 998Ah | 99.8A | 2 | 0.38mΩ | 4830A |
| MVSV 1250 | 68001250 | 2V | 1248Ah | 124.8A | 2 | 0.33mΩ | 6260A |
| MVSV 1500 | 68001500 | 2V | 1497Ah | 149.7A | 2 | 0.29mΩ | 7840A |
| MVSV 1650 | 68001650 | 2V | 1643Ah | 164.3A | 2 | 0.19mΩ | 10500A |
| MVSV 2200 | 68002200 | 2V | 2190Ah | 219.0A | 3 | 0.15mΩ | 14000A |
| MVSV 2700 | 68002700 | 2V | 2738Ah | 273.8A | 4 | 0.12mΩ | 17500A |

* Nominal capacity C₁₀: 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 ₁ | C ₃ | C ₅ | C ₁₀ |
| MVSV 280 | 68000280 | 154.7A | 76.5A | 50.3A | 28.0A |
| MVSV 420 | 68000420 | 239.9A | 116.5A | 81.2A | 41.6A |
| MVSV 500 | 68000500 | 287.9A | 139.8A | 97.5A | 49.9A |
| MVSV 580 | 68000580 | 335.9A | 163.1A | 113.7A | 58.2A |
| MVSV 750 | 68000750 | 437.8A | 195.5A | 135.2A | 74.8A |
| MVSV 1000 | 68001000 | 583.4A | 261.0A | 179.9A | 99.8A |
| MVSV 1250 | 68001250 | 729.0A | 326.6A | 224.6A | 124.8A |
| MVSV 1500 | 68001500 | 874.6A | 392.1A | 269.4A | 149.7A |
| MVSV 1650 | 68001650 | 958.9A | 445.1A | 289.1A | 164.3A |
| MVSV 2200 | 68002200 | 1287.5A | 593.5A | 385.5A | 219.0A |
| MVSV 2700 | 68002700 | 1598.1A | 741.9A | 481.9A | 273.8A |
| Final discharge voltage | | 1.60V | 1.70V | 1.75V | 1.80V |

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 | 57.2 | 39 | 26.9 | 23 |
| MVSV 420 | 68000420 | 244 | 231 | 187 | 143 | 114 | 93.4 | 65.3 | 44.6 | 36.6 |
| MVSV 500 | 68000500 | 293 | 277 | 224 | 171 | 137 | 112 | 78.4 | 53.5 | 43.9 |
| MVSV 580 | 68000580 | 342 | 323 | 262 | 200 | 160 | 130 | 91.4 | 62.5 | 51.3 |
| MVSV 750 | 68000750 | 265 | 259 | 243 | 214 | 167 | 143 | 100 | 71.8 | 60.3 |
| MVSV 1000 | 68001000 | 353 | 345 | 324 | 286 | 222 | 191 | 135 | 95.7 | 81 |
| MVSV 1250 | 68001250 | 442 | 431 | 405 | 357 | 278 | 239 | 168 | 119 | 100 |
| MVSV 1500 | 68001500 | 530 | 517 | 486 | 429 | 334 | 281 | 201 | 143 | 120 |
| MVSV 1650 | 68001650 | 519 | 502 | 479 | 436 | 352 | 286 | 209 | 152 | 133 |
| MVSV 2200 | 68002200 | 691 | 669 | 639 | 582 | 470 | 381 | 278 | 203 | 177 |
| MVSV 2700 | 68002700 | 864 | 837 | 799 | 728 | 587 | 476 | 348 | 254 | 221 |

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 | 104 | 80.9 | 62 | 43.7 | 30.3 | 25.7 |
| MVSV 420 | 68000420 | 332 | 284 | 239 | 163 | 123 | 99.1 | 69.5 | 47.8 | 39 |
| MVSV 500 | 68000500 | 399 | 341 | 287 | 196 | 147 | 118 | 83.4 | 57.4 | 46.8 |
| MVSV 580 | 68000580 | 465 | 398 | 334 | 228 | 172 | 138 | 97.3 | 67 | 54.6 |
| MVSV 750 | 68000750 | 335 | 327 | 305 | 248 | 194 | 156 | 112 | 78 | 65.5 |
| MVSV 1000 | 68001000 | 448 | 436 | 407 | 330 | 260 | 208 | 149 | 104 | 87.4 |
| MVSV 1250 | 68001250 | 560 | 546 | 509 | 413 | 324 | 260 | 187 | 130 | 109 |
| MVSV 1500 | 68001500 | 624 | 613 | 595 | 474 | 401 | 328 | 228 | 164 | 145 |
| MVSV 1650 | 68001650 | 672 | 655 | 611 | 497 | 389 | 312 | 224 | 156 | 131 |
| MVSV 2200 | 68002200 | 832 | 818 | 794 | 632 | 535 | 438 | 305 | 219 | 194 |
| MVSV 2700 | 68002700 | 1040 | 1022 | 993 | 790 | 669 | 547 | 381 | 273 | 242 |

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 | 242 | 214 | 171 | 114 | 85.2 | 65 | 45.4 | 31.1 | 26.7 |
| MVSV 420 | 68000420 | 332 | 291 | 249 | 176 | 124 | 104 | 72.8 | 49.9 | 40.5 |
| MVSV 500 | 68000500 | 399 | 349 | 299 | 212 | 149 | 125 | 87.4 | 59.9 | 48.5 |
| MVSV 580 | 68000580 | 465 | 407 | 349 | 247 | 174 | 146 | 101 | 69.9 | 56.6 |
| MVSV 750 | 68000750 | 399 | 368 | 337 | 269 | 200 | 165 | 119 | 82.2 | 68.5 |
| MVSV 1000 | 68001000 | 532 | 490 | 449 | 359 | 268 | 220 | 159 | 110 | 91.5 |
| MVSV 1250 | 68001250 | 665 | 613 | 561 | 449 | 334 | 275 | 198 | 137 | 114 |
| MVSV 1500 | 68001500 | 773 | 729 | 612 | 488 | 416 | 342 | 239 | 169 | 148 |
| MVSV 1650 | 68001650 | 798 | 736 | 673 | 538 | 401 | 330 | 238 | 164 | 137 |
| MVSV 2200 | 68002200 | 1031 | 972 | 816 | 651 | 555 | 456 | 319 | 226 | 197 |
| MVSV 2700 | 68002700 | 1289 | 1215 | 1020 | 814 | 694 | 570 | 399 | 283 | 247 |

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 | 119 | 89.3 | 67.7 | 47.6 | 32.5 | 27.8 |
| MVSV 420 | 68000420 | 350 | 297 | 265 | 187 | 126 | 106 | 74.8 | 50.9 | 41 |
| MVSV 500 | 68000500 | 420 | 356 | 318 | 225 | 152 | 127 | 89.7 | 61 | 49.2 |
| MVSV 580 | 68000580 | 490 | 416 | 372 | 262 | 177 | 148 | 104 | 71.2 | 57.4 |
| MVSV 750 | 68000750 | 421 | 404 | 365 | 290 | 221 | 176 | 125 | 87.4 | 71 |
| MVSV 1000 | 68001000 | 561 | 539 | 487 | 386 | 295 | 234 | 167 | 116 | 94.8 |
| MVSV 1250 | 68001250 | 692 | 673 | 609 | 483 | 369 | 293 | 209 | 145 | 118 |
| MVSV 1500 | 68001500 | 842 | 808 | 708 | 535 | 442 | 373 | 260 | 178 | 153 |
| MVSV 1650 | 68001650 | 831 | 808 | 731 | 580 | 443 | 351 | 250 | 174 | 142 |
| MVSV 2200 | 68002200 | 1123 | 1077 | 944 | 714 | 589 | 497 | 346 | 238 | 205 |
| MVSV 2700 | 68002700 | 1404 | 1346 | 1180 | 892 | 737 | 622 | 433 | 298 | 256 |

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 | 291 | 259 | 197 | 124 | 93.2 | 72.5 | 49 | 33.2 | 28.1 |
| MVSV 420 | 68000420 | 418 | 374 | 280 | 201 | 136 | 109 | 79.5 | 51.3 | 41.6 |
| MVSV 500 | 68000500 | 501 | 448 | 336 | 242 | 163 | 131 | 95.5 | 61.5 | 49.9 |
| MVSV 580 | 68000580 | 585 | 523 | 393 | 282 | 190 | 152 | 111 | 71.8 | 58.2 |
| MVSV 750 | 68000750 | 488 | 458 | 388 | 314 | 227 | 185 | 130 | 89.4 | 74.9 |
| MVSV 1000 | 68001000 | 652 | 611 | 518 | 419 | 303 | 247 | 173 | 119 | 99.8 |
| MVSV 1250 | 68001250 | 815 | 764 | 649 | 524 | 379 | 308 | 217 | 149 | 124 |
| MVSV 1500 | 68001500 | 978 | 917 | 779 | 629 | 455 | 370 | 261 | 179 | 149 |
| MVSV 1650 | 68001650 | 959 | 898 | 807 | 647 | 467 | 398 | 271 | 186 | 164 |
| MVSV 2200 | 68002200 | 1279 | 1198 | 1076 | 863 | 622 | 531 | 361 | 248 | 219 |
| MVSV 2700 | 68002700 | 1599 | 1497 | 1345 | 1079 | 778 | 663 | 452 | 310 | 273 |

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 | 323 | 302 | 222 | 143 | 99.9 | 75.4 | 50.3 | 34.1 | 28.7 |
| MVSV 420 | 68000420 | 423 | 389 | 300 | 227 | 136 | 112 | 81.2 | 52.7 | 42.4 |
| MVSV 500 | 68000500 | 508 | 467 | 360 | 273 | 163 | 135 | 97.5 | 63.3 | 50.9 |
| MVSV 580 | 68000580 | 592 | 545 | 420 | 318 | 190 | 158 | 113 | 73.8 | 59.4 |
| MVSV 750 | 68000750 | 561 | 534 | 463 | 333 | 240 | 192 | 135 | 92.6 | 77 |
| MVSV 1000 | 68001000 | 748 | 712 | 618 | 445 | 320 | 255 | 179 | 123 | 101 |
| MVSV 1250 | 68001250 | 936 | 890 | 773 | 556 | 400 | 320 | 224 | 155 | 127 |
| MVSV 1500 | 68001500 | 1123 | 1068 | 928 | 667 | 480 | 384 | 269 | 186 | 153 |
| MVSV 1650 | 68001650 | 1016 | 985 | 928 | 759 | 490 | 425 | 289 | 189 | 164 |
| MVSV 2200 | 68002200 | 1354 | 1314 | 1238 | 1012 | 654 | 567 | 385 | 252 | 219 |
| MVSV 2700 | 68002700 | 1693 | 1643 | 1547 | 1265 | 818 | 708 | 481 | 315 | 273 |

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 | 356 | 322 | 252 | 148 | 102 | 76.5 | 50.3 | 34.1 | 28.7 |
| MVSV 420 | 68000420 | 468 | 425 | 334 | 233 | 140 | 116 | 81.8 | 53 | 42.8 |
| MVSV 500 | 68000500 | 562 | 510 | 401 | 279 | 168 | 139 | 98.2 | 63.6 | 51.4 |
| MVSV 580 | 68000580 | 656 | 595 | 468 | 326 | 196 | 163 | 114 | 74.3 | 60 |
| MVSV 750 | 68000750 | 639 | 615 | 527 | 393 | 252 | 195 | 136 | 92.6 | 77 |
| MVSV 1000 | 68001000 | 852 | 820 | 703 | 524 | 337 | 261 | 181 | 123 | 101 |
| MVSV 1250 | 68001250 | 1066 | 1025 | 878 | 655 | 421 | 326 | 226 | 155 | 127 |
| MVSV 1500 | 68001500 | 1279 | 1230 | 1054 | 786 | 505 | 392 | 272 | 186 | 153 |
| MVSV 1650 | 68001650 | 1169 | 1110 | 1024 | 861 | 540 | 445 | 296 | 189 | 164 |
| MVSV 2200 | 68002200 | 1558 | 1481 | 1365 | 1148 | 721 | 593 | 395 | 252 | 219 |
| MVSV 2700 | 68002700 | 1948 | 1851 | 1707 | 1435 | 901 | 741 | 494 | 315 | 273 |

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 | 76.5 | 50.3 | 34.1 | 28.7 |
| MVSV 420 | 68000420 | 528 | 488 | 369 | 236 | 140 | 116 | 81.8 | 53 | 42.8 |
| MVSV 500 | 68000500 | 634 | 586 | 442 | 283 | 168 | 139 | 98.2 | 63.6 | 51.4 |
| MVSV 580 | 68000580 | 739 | 683 | 516 | 330 | 196 | 163 | 114 | 74.3 | 60 |
| MVSV 750 | 68000750 | 705 | 696 | 583 | 419 | 255 | 195 | 136 | 92.6 | 77 |
| MVSV 1000 | 68001000 | 940 | 928 | 777 | 559 | 341 | 261 | 181 | 123 | 101 |
| MVSV 1250 | 68001250 | 1175 | 1160 | 972 | 698 | 426 | 326 | 226 | 155 | 127 |
| MVSV 1500 | 68001500 | 1410 | 1392 | 1166 | 838 | 511 | 392 | 272 | 186 | 153 |
| MVSV 1650 | 68001650 | 1256 | 1206 | 1107 | 916 | 548 | 447 | 299 | 190 | 166 |
| MVSV 2200 | 68002200 | 1675 | 1608 | 1476 | 1221 | 730 | 596 | 399 | 253 | 221 |
| MVSV 2700 | 68002700 | 2093 | 2010 | 1846 | 1527 | 913 | 745 | 499 | 317 | 277 |

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 | 435 | 377 | 277 | 154 | 103 | 76.5 | 50.3 | 34.1 | 28.7 |
| MVSV 420 | 68000420 | 552 | 508 | 382 | 239 | 140 | 116 | 81.8 | 53 | 42.8 |
| MVSV 500 | 68000500 | 662 | 610 | 459 | 287 | 168 | 139 | 98.2 | 63.6 | 51.4 |
| MVSV 580 | 68000580 | 773 | 712 | 535 | 335 | 196 | 163 | 114 | 74.3 | 60 |
| MVSV 750 | 68000750 | 786 | 767 | 632 | 437 | 255 | 195 | 136 | 92.6 | 77 |
| MVSV 1000 | 68001000 | 1048 | 1023 | 843 | 583 | 341 | 261 | 181 | 123 | 101 |
| MVSV 1250 | 68001250 | 1310 | 1279 | 1054 | 729 | 426 | 326 | 226 | 155 | 127 |
| MVSV 1500 | 68001500 | 1572 | 1535 | 1265 | 874 | 511 | 392 | 272 | 186 | 153 |
| MVSV 1650 | 68001650 | 1544 | 1404 | 1248 | 958 | 560 | 455 | 303 | 191 | 166 |
| MVSV 2200 | 68002200 | 2059 | 1872 | 1664 | 1278 | 747 | 607 | 404 | 255 | 221 |
| MVSV 2700 | 68002700 | 2574 | 2340 | 2080 | 1598 | 934 | 759 | 506 | 318 | 277 |

1.4 PARTS INCLUDED IN THE STANDARD DELIVERY

Please note that the contents of your delivery may differ due to special agreements

| Part number | Description | 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 | 4 | 10 | 4 | 10 | | | | | | | | | | | | | | | | | | | | |
| 67909017 | Battery cable 70mm2, L=155 mm | | | | | 4 | 10 | | | | | | | | | | | | | | | | | | |
| 67909025 | Battery cable 70mm2, L=165 mm | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 2 | 2 | 2 | 2 | | | | | | | | | | |
| 67909024 | Battery cable 70mm2, L=175 mm | | | | | | | 5 | 11 | | | | | | | | | | | | | | | | |
| 67909023 | Battery cable 70mm2, L=230 mm | | | | | | | | | | | | | | | | | | | | 3 | 3 | | | |
| 67909026 | Battery cable 70mm2, L=330 mm | | | | | | | | | 8 | 20 | 8 | 20 | | | | | | | | | | | | |
| 67909027 | Battery cable 95mm2, L=115mm | | | | | | | | | | | | | | | | | | | | 12 | 30 | 16 | 40 | |
| 67909021 | Battery cable 95mm2, L=155 mm | | | | | | | | | 4 | 10 | | | | | | | | | | | | | | |
| 67909018 | Battery cable 95mm2, L=190 mm | | | | | | | | | 1 | 1 | | | | | 2 | 2 | 2 | 2 | | | | | | |
| 67909028 | Battery cable 95mm2, L=400 mm | | | | | | | | | | | | | | | 8 | 20 | 8 | 20 | | | | | | |
| 67909019 | Battery cable 95mm2, L=580 mm | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | |
| 67909100 | Cover for connector positive | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 5 | 11 | 10 | 22 | 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 | 10 | 22 | 10 | 22 | 10 | 22 | 10 | 22 | 10 | 22 | 30 | 33 | 20 | 44 |
| 67909104 | Screw M8x25 for connector | 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 | 24 | 48 | 24 | 48 | 24 | 48 | 24 | 48 | 24 | 48 | 36 | 72 | 48 | 96 |
| 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 | |
| 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 | |
| 67909201 | Plate for end connector 50x5x110mm | | | | | | | | | | | 2 | 2 | | | | | | | | | | | | |
| 67909202 | Plate for end connector 50x5x140mm | | | | | | | | | | | | | 2 | 2 | | | | | | | | | | |
| 67909203 | Plate for end connector 50x5x170mm | | | | | | | | | | | | | | | 2 | 2 | 2 | 2 | | | | | | |
| 67909204 | Plate for end connector 50x8x250mm | | | | | | | | | | | | | | | | | | | | 2 | 2 | | | |
| 67909205 | Plate for end connector 50x8x360mm | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | |
| 67909104 | Screw M8x25 for connector | | | | | | | | | 4 | 4 | 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 | 4 | 4 | 6 | 6 | 8 | 8 | |
| 67909109 | Washer B 8,4 for end connector | | | | | | | | | 4 | 4 | 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 | 4 | 4 | 6 | 6 | 8 | 8 | |

Mastervolt can offer a wide range of products for your electrical installation, including a wide variety of automatic battery chargers, battery cables, DC fuses, cable lugs, battery consumption meters and DC distribution kits
See our website www.mastervolt.com for an extensive overview of all our products



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