

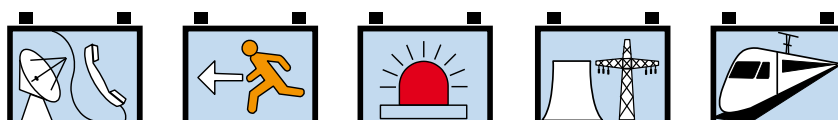


**EverExceed<sup>®</sup>**  
*power your applications*

## Modular Gel Range VRLA



*»Premium quality for  
uninterrupted communication«*



[www.everexceed.com](http://www.everexceed.com)



## Modular Gel Range Valve Regulated Lead Acid 2 Volt Flat Pasted Plate Battery Gelled Electrolyte Technology

**100AH to 4000AH @ C10**

EverExceed Modular Gel Range sealed, maintenance free Valve Regulated Lead Acid (V.R.L.A.) batteries are designed for float service or deep cycle (1000+ x 80%) applications. EverExceed advanced gelled electrolyte technology ensures reliable performance, safety, outstanding battery life and value. Battery has a design life of 18 years and complies with BS 6290 Part 4, JIS, EUROBAT (IEC896-2) standards and is a recognized component of UL1989 under the Standby Battery Category.

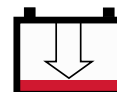
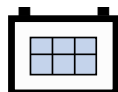
**Applicable Operating temperature range:**  
-40°C (-40°F) to +70°C (+158°F)

**Ideal Operating temperature range:**  
+20°C (+68°F) to +35°C (+95°F)

**Storage time from a fully charged condition:**  
2 years at 20°C / 68°F. For each 9°C / 15°F rise, reduce the storage time by half.

## Applications

- ☑ Cycling / Float Service
- ☑ Switchgear
- ☑ Photovoltaic / Solar / Wind Energy
- ☑ Cellular Radio
- ☑ Telecommunications
- ☑ Control Systems
- ☑ Cathodic Protection
- ☑ Engine Starting
- ☑ Emergency Lighting
- ☑ UPS system
- ☑ Boats / Marine / Navigation Aids



## Innovative Features

- ☑ Valve regulated Lead Acid (V.R.L.A.) design;
- ☑ Sulfuric acid thixotropic gel, electrolyte in solid gel form will not stratify – no equalization charge required;  
Gel powder from Europe leading supplier to ensure the unique performance of gel battery;
- ☑ Microporous rubber and corrugated PVC SiO<sub>2</sub> separator, the special design increase the high porosity and anti-corrosion and decrease the internal resistance;
- ☑ Virgin Pure Lead Tin and thick positive plate technology design for maximum service float life - 18 years design life @20°C(68°F);
- ☑ Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.
- ☑ Thickness positive plate plus optimized plate alloy to anticorrosion;
- ☑ Unique performance against high temperature;
- ☑ Non-gassing;
- ☑ Never needs addition of water;
- ☑ Spill-proof and leak-proof;
- ☑ Operates at a low internal pressure;
- ☑ For use in vertical or horizontal position;
- ☑ Each cell has a low pressure safety release venting system;
- ☑ Flame Retardant material V-0 optional.

## Specifications

- ☑ Positive Plate: Lead-Calcium-Tin Flat Plate Grid;
- ☑ Negative Plate: Flat Pasted Grid;
- ☑ Electrolyte: Sulfuric acid thixotropic gel;
- ☑ Container & Cover:  
Standard: Reinforced ABS (UL 94HB);  
Optional: Flame-retardant reinforced ABS compliant with U.L.94 V-0 with an Oxygen limiting, Index of greater than 28%.
- ☑ Separators: Microporous duroplastic separator;
- ☑ Float Voltage: 2.25 VPC +/- 1% at 20°C /25°C;
- ☑ Cycle service: 2.35 VPC +/- 1% at 20°C /25°C;
- ☑ Max. Charge Voltage: 2.40 VPC at 20°C /25°C;
- ☑ Safety One-Way Valve: 1-3PSI self-resealing;
- ☑ Terminals: Silver plated Integral Copper Insert.

## No transport restrictions

- ☑ Surface transport. Classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.
- ☑ Marine transport. Classified as non-hazardous material as per IMDG amendment 27.
- ☑ Air transport. Complies with IATA/ICAO, Special provision A67.

## Introduction

EverExceed Modular Gel Range VRLA batteries are suitable for renewable energy deep cycle applications.

The positive and negative grids are cast from a calcium / tin lead alloy to reduce grid growth and corrosion. The active material is manufactured from a high purity lead (99.9999%) to minimize the negative effects of impurities.

Separator is manufactured utilizing the latest German technology. The base material is a microporous duroplastic exhibiting excellent high temperature stability and mechanical strength, resulting in very good resistance to vibration and mechanical shock. The integrity of the battery will be maintained under extreme conditions. The purpose of the separator is to maintain a constant distance between the positive and negative plates, totally eliminating the possibility of short circuits whilst allowing the active materials to fully react with the gelled electrolyte. The separator also has an open construction, which allows little resistance to the flow of the electrolyte during filling. A thin layer (typically 0.4mm) of non-woven glass mat is an integral part of the separator and is placed against the positive for improved surface contact. A compression platform at the bottom of the cell allows expansion and contraction of the plates.

## General Features

### Valve Regulated (Sealed) Construction

EverExceed Modular Gel Range valve regulated rechargeable lead acid batteries are for safe, maintenance free operation in Vertical or Horizontal position. The acid is immobilized in a specially formulated thixotropic gel electrolyte and it provides a safe non-spillable battery.

### Gas Recombination System

The gasses generated in the normal charge / discharge use of the battery are recombined during normal operation. In normal operation, more than 99% of the gases generated are efficiently recombined.

### Maintenance Free

The Battery has been designed and built such that no addition of electrolyte is needed for the life of the battery. There is no need to add water or take specific gravity readings.

### Battery Life – Float Service

EverExceed Modular Gel Range is designed for float (Standby) service with design life of 18 years at 20°C (68°F).

### Battery Life – Cycle Service

EverExceed Modular Gel Range is designed for more than 5000 charge / discharge cycles, actual quantity will depend on the frequency, depth of discharge (D.O.D.) and ambient temperature.

### Safety Valve

If excess pressure builds up within the battery, the safety valve automatically opens and re-closes, releasing the gas at 1-3 PSI. The valve does not allow the ingress of oxygen which is harmful and reduces the life expectation of the battery.

### Temperature Range for Normal Operation

EverExceed Modular Gel Range has a wide operating temperature range. However for maximum life and safety, continuous operation over 45°C is not recommended.

### Grid Design and Paste Formation

EverExceed has optimized the grid design and paste formation to maximize the operating and storage life of the Gel battery.

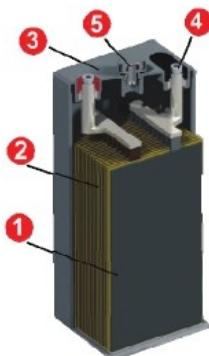
This optimized design provides the following advantages:

Excellent recovery from deep discharge or over discharge;

Low self-discharge to ensure maximum storage time when not in use;

Adequate safety margins in tough operating conditions;

Excellent cycling capability.



#### Plates:

calcium / tin lead alloy, optimized for high corrosion resistance.

#### Separator:

European leading microporous duroplastic PVC-SiO<sub>2</sub> separator

#### Standard Housing:

Reinforced ABS (UL 94HB) container and cover

#### Optional Housing:

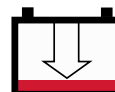
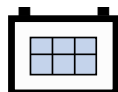
Flame-retardant reinforced ABS container and cover compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%.

#### Terminals:

Silver plated Copper female insert for easy and safe assembly and maintenance free connection with excellent conductivity.

#### Valves:

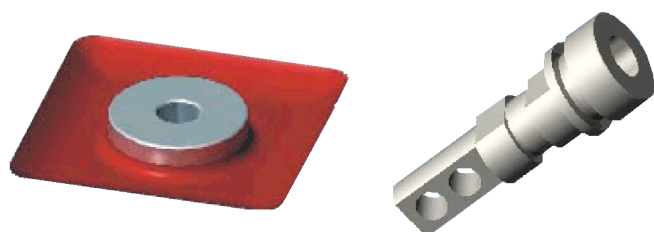
Release gas in case of excess pressure and protects the cell against atmosphere



## Modular Gel Range Electrical Specifications & Dimensions

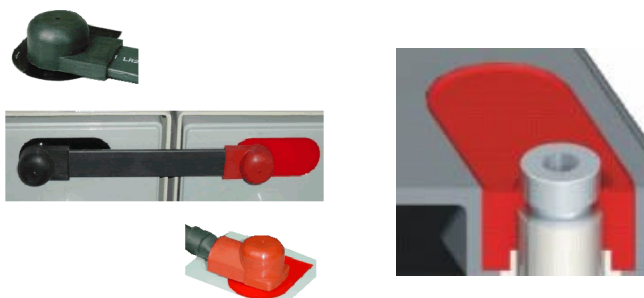
| Battery Model | Nom. Voltage (V) | Capacity C10 1.80VPC @ 20°C | Capacity C20 1.75VPC @ 20°C | Capacity C100 1.80VPC @ 20°C | Short Circuit Amps | Internal Resistance Milli-ohms | No. of Term. | Max. Charge Current | Terminal Type | Battery Weight (kg/lb) | Outline Dimensions (mm/inch) |          |          |              |
|---------------|------------------|-----------------------------|-----------------------------|------------------------------|--------------------|--------------------------------|--------------|---------------------|---------------|------------------------|------------------------------|----------|----------|--------------|
|               |                  |                             |                             |                              |                    |                                |              |                     |               |                        | Length                       | Width    | Height   | Total Height |
| MGR 2-100G    | 2                | 100                         | 113                         | 123                          | 890                | 2.00                           | 2            | 20                  | ST1           | 8.5/18.7               | 171/6.74                     | 102/4.02 | 205/8.07 | 211/8.31     |
| MGR 2-150G    | 2                | 150                         | 170                         | 185                          | 1280               | 1.50                           | 2            | 30                  | ST1           | 11/24.3                | 171/6.74                     | 102/4.02 | 205/8.07 | 211/8.31     |
| MGR 2-200G    | 2                | 200                         | 227                         | 246                          | 1320               | 0.50                           | 2            | 40                  | ST2           | 15/33.1                | 171/6.74                     | 106/4.18 | 330/13.0 | 336/13.2     |
| MGR 2-250G    | 2                | 250                         | 283                         | 308                          | 1660               | 0.45                           | 2            | 50                  | ST2           | 18.5/40.8              | 171/6.74                     | 151/5.95 | 330/13.0 | 336/13.2     |
| MGR 2-300G    | 2                | 300                         | 340                         | 369                          | 1990               | 0.40                           | 2            | 60                  | ST2           | 21/46.2                | 171/6.74                     | 151/5.95 | 330/13.0 | 336/13.2     |
| MGR 2-400G    | 2                | 400                         | 455                         | 500                          | 2660               | 0.36                           | 4            | 80                  | ST2           | 28/61.7                | 210/8.27                     | 173/6.82 | 330/13.0 | 336/13.2     |
| MGR 2-500G    | 2                | 500                         | 567                         | 615                          | 3320               | 0.30                           | 4            | 100                 | ST2           | 33/72.8                | 241/9.50                     | 171/6.74 | 330/13.0 | 336/13.2     |
| MGR 2-600G    | 2                | 600                         | 681                         | 738                          | 3980               | 0.28                           | 4            | 120                 | ST2           | 42/92.6                | 302/11.9                     | 175/6.90 | 330/13.0 | 336/13.2     |
| MGR 2-700G    | 2                | 700                         | 757                         | 913                          | 4850               | 0.22                           | 4            | 140                 | ST2           | 50/110                 | 302/11.9                     | 175/6.90 | 330/13.0 | 336/13.2     |
| MGR 2-800G    | 2                | 800                         | 908                         | 984                          | 5300               | 0.20                           | 8            | 160                 | ST2           | 57/126                 | 410/16.2                     | 175/6.90 | 330/13.0 | 336/13.2     |
| MGR 2-1000G   | 2                | 1000                        | 1136                        | 1230                         | 6550               | 0.16                           | 8            | 200                 | ST2           | 66/146                 | 482/19.0                     | 175/6.90 | 330/13.0 | 336/13.2     |
| MGR 2-1250G   | 2                | 1250                        | 1420                        | 1542                         | 8200               | 0.13                           | 8            | 240                 | ST2           | 70/154                 | 482/19.0                     | 175/6.90 | 330/13.0 | 336/13.2     |
| MGR 2-1500G   | 2                | 1500                        | 1698                        | 1850                         | 9920               | 0.11                           | 8            | 300                 | ST2           | 100/220                | 400/15.8                     | 350/13.8 | 345/13.6 | 351/13.8     |
| MGR 2-1800G   | 2                | 1800                        | 2042                        | 2220                         | 12300              | 0.10                           | 8            | 360                 | ST2           | 120/265                | 490/19.3                     | 350/13.8 | 345/13.6 | 351/13.8     |
| MGR 2-2000G   | 2                | 2000                        | 2269                        | 2460                         | 13400              | 0.09                           | 8            | 400                 | ST2           | 132/291                | 490/19.3                     | 350/13.8 | 345/13.6 | 351/13.8     |
| MGR 2-2500G   | 2                | 2500                        | 2833                        | 3080                         | 16540              | 0.08                           | 8            | 500                 | ST2           | 175/386                | 490/19.3                     | 350/13.8 | 345/13.6 | 351/13.8     |
| MGR 2-3000G   | 2                | 3000                        | 3395                        | 3690                         | 19980              | 0.08                           | 8            | 600                 | ST2           | 210/ 463               | 710/27.9                     | 350/13.8 | 345/13.6 | 351/13.8     |
| MGR 2-4000G   | 2                | 4000                        | 4519                        | 4920                         | 27500              | 0.06                           | 8            | 800                 | ST2           | 261/ 576               | 710/27.9                     | 350/13.8 | 345/13.6 | 351/13.8     |

### Terminal Type

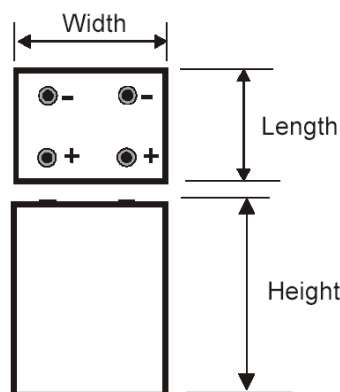


**ST1:** Copper Insert type terminal with 16 mm Diameter insert. Standing 5mm above the top of the battery case with M8 thread M8 bolt. Flat and Spring washer supplied.

**ST2:** Copper Insert type terminal with 18 mm Diameter insert. Standing 5mm above the top of the battery case with M8 thread M8 bolt. Flat and Spring washer supplied.



### Cell Dimensions for Rack Layout



### Battery Float Voltage

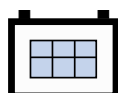
| Ambient Temperature | Recommended Applied Float Voltage VPC |
|---------------------|---------------------------------------|
| 0~9°C               | 2.33-2.35                             |
| 10~14°C             | 2.30-2.33                             |
| 15~19°C             | 2.27-2.30                             |
| 20~24°C             | 2.27-2.30                             |
| 25~29°C             | 2.25-2.27                             |
| 30~34°C             | 2.23-2.25                             |
| 35~40°C             | 2.21-2.23                             |



## Modular Gel Range Discharge Ampere Hours Data @ 20°C

| Battery Model | End VPC | Discharge Data Amps @ 20°C |      |      |      |      |      | End VPC | Discharge Data Ampere Hours @ 20°C |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------|---------|----------------------------|------|------|------|------|------|---------|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|               |         | Discharge Time In Minutes  |      |      |      |      |      |         | Discharge Time In Hours            |      |      |      |      |      |      |      |      |      |      |      |      |      |
|               |         | 5                          | 10   | 15   | 30   | 45   | 60   |         | 1.5                                | 2    | 3    | 4    | 5    | 6    | 8    | 10   | 12   | 20   | 24   | 48   | 100  |      |
| MGR 2-100G    | 1.80    | 236                        | 177  | 148  | 97.0 | 72.6 | 59.0 | 1.85    | 60.2                               | 64.8 | 73.2 | 76.0 | 79.0 | 83.4 | 91.2 | 94.0 | 95.9 | 102  | 105  | 108  | 116  |      |
|               | 1.75    | 250                        | 187  | 156  | 102  | 76.8 | 62.4 | 1.80    | 64.1                               | 69.0 | 78.0 | 81.2 | 84.0 | 88.8 | 96.8 | 100  | 102  | 108  | 111  | 115  | 123  |      |
|               | 1.67    | 269                        | 199  | 171  | 105  | 78.7 | 63.4 | 1.75    | 66.6                               | 71.8 | 81.0 | 84.4 | 87.5 | 92.4 | 101  | 104  | 106  | 113  | 116  | 120  | 128  |      |
| MGR 2-150G    | 1.80    | 291                        | 239  | 214  | 140  | 105  | 85.5 | 1.85    | 90.3                               | 97.2 | 110  | 114  | 119  | 125  | 137  | 141  | 144  | 153  | 157  | 162  | 173  |      |
|               | 1.75    | 308                        | 253  | 226  | 148  | 111  | 90.5 | 1.80    | 96.0                               | 104  | 117  | 122  | 126  | 134  | 146  | 150  | 154  | 163  | 167  | 172  | 185  |      |
|               | 1.67    | 322                        | 262  | 249  | 153  | 114  | 92.0 | 1.75    | 99.9                               | 108  | 122  | 126  | 131  | 139  | 151  | 156  | 160  | 170  | 174  | 180  | 192  |      |
| MGR 2-200G    | 1.80    | 319                        | 274  | 228  | 176  | 138  | 114  | 1.85    | 121                                | 130  | 147  | 153  | 159  | 168  | 183  | 189  | 194  | 205  | 210  | 217  | 232  |      |
|               | 1.75    | 376                        | 303  | 259  | 187  | 147  | 121  | 1.80    | 128                                | 138  | 156  | 162  | 168  | 178  | 194  | 200  | 204  | 218  | 223  | 230  | 246  |      |
|               | 1.67    | 419                        | 351  | 289  | 194  | 150  | 123  | 1.75    | 134                                | 144  | 163  | 169  | 176  | 186  | 202  | 210  | 214  | 227  | 233  | 240  | 257  |      |
| MGR 2-250G    | 1.80    | 399                        | 342  | 285  | 219  | 172  | 143  | 1.85    | 152                                | 163  | 184  | 191  | 198  | 210  | 229  | 236  | 241  | 258  | 264  | 271  | 290  |      |
|               | 1.75    | 469                        | 378  | 324  | 233  | 183  | 151  | 1.80    | 161                                | 173  | 195  | 202  | 210  | 223  | 242  | 250  | 256  | 271  | 278  | 288  | 308  |      |
|               | 1.67    | 524                        | 439  | 360  | 242  | 188  | 154  | 1.75    | 165                                | 180  | 204  | 212  | 219  | 232  | 253  | 261  | 266  | 283  | 290  | 300  | 321  |      |
| MGR 2-300G    | 1.80    | 479                        | 410  | 342  | 263  | 207  | 171  | 1.85    | 182                                | 196  | 221  | 229  | 238  | 252  | 274  | 283  | 289  | 306  | 314  | 325  | 348  |      |
|               | 1.75    | 563                        | 454  | 388  | 280  | 220  | 182  | 1.80    | 192                                | 208  | 234  | 243  | 252  | 267  | 291  | 300  | 306  | 328  | 336  | 345  | 369  |      |
|               | 1.67    | 628                        | 526  | 432  | 290  | 225  | 185  | 1.75    | 201                                | 216  | 244  | 254  | 263  | 278  | 304  | 313  | 319  | 340  | 348  | 360  | 385  |      |
| MGR 2-400G    | 1.80    | 638                        | 547  | 456  | 351  | 276  | 228  | 1.85    | 242                                | 260  | 294  | 305  | 317  | 335  | 366  | 377  | 384  | 410  | 420  | 433  | 464  |      |
|               | 1.75    | 750                        | 605  | 518  | 372  | 293  | 242  | 1.80    | 257                                | 276  | 312  | 324  | 336  | 356  | 388  | 400  | 408  | 435  | 446  | 460  | 500  |      |
|               | 1.67    | 837                        | 701  | 576  | 386  | 300  | 246  | 1.75    | 267                                | 288  | 324  | 338  | 351  | 371  | 405  | 420  | 425  | 455  | 466  | 480  | 513  |      |
| MGR 2-500G    | 1.80    | 798                        | 684  | 570  | 439  | 345  | 285  | 1.85    | 302                                | 326  | 369  | 382  | 397  | 420  | 458  | 472  | 481  | 515  | 528  | 542  | 581  |      |
|               | 1.75    | 939                        | 757  | 648  | 466  | 366  | 303  | 1.80    | 320                                | 346  | 390  | 404  | 420  | 445  | 485  | 500  | 510  | 545  | 559  | 576  | 615  |      |
|               | 1.67    | 1047                       | 878  | 721  | 484  | 376  | 308  | 1.75    | 335                                | 360  | 408  | 424  | 439  | 464  | 506  | 522  | 533  | 567  | 581  | 600  | 642  |      |
| MGR 2-600G    | 1.80    | 958                        | 821  | 684  | 527  | 414  | 342  | 1.85    | 362                                | 390  | 441  | 460  | 476  | 504  | 549  | 566  | 577  | 616  | 631  | 653  | 696  |      |
|               | 1.75    | 1126                       | 908  | 777  | 559  | 439  | 363  | 1.80    | 384                                | 414  | 468  | 488  | 505  | 534  | 582  | 600  | 612  | 656  | 672  | 691  | 738  |      |
|               | 1.67    | 1256                       | 1053 | 864  | 580  | 451  | 369  | 1.75    | 401                                | 432  | 489  | 508  | 525  | 557  | 607  | 626  | 638  | 681  | 698  | 720  | 770  |      |
| MGR 2-700G    | 1.80    | 1186                       | 1016 | 846  | 652  | 512  | 423  | 1.85    | 448                                | 484  | 547  | 568  | 589  | 624  | 636  | 658  | 670  | 720  | 738  | 809  | 861  |      |
|               | 1.75    | 1394                       | 1123 | 962  | 692  | 543  | 450  | 1.80    | 476                                | 513  | 579  | 602  | 626  | 662  | 662  | 700  | 714  | 745  | 764  | 855  | 913  |      |
|               | 1.67    | 1554                       | 1303 | 1069 | 718  | 558  | 457  | 1.75    | 496                                | 535  | 605  | 628  | 652  | 687  | 704  | 732  | 747  | 757  | 776  | 891  | 952  |      |
| MGR 2-800G    | 1.80    | 1277                       | 1094 | 912  | 702  | 552  | 456  | 1.85    | 483                                | 520  | 588  | 612  | 635  | 672  | 732  | 755  | 770  | 820  | 840  | 869  | 929  |      |
|               | 1.75    | 1501                       | 1211 | 1036 | 746  | 586  | 484  | 1.80    | 512                                | 552  | 624  | 648  | 670  | 714  | 776  | 800  | 816  | 868  | 890  | 922  | 984  |      |
|               | 1.67    | 1675                       | 1404 | 1153 | 773  | 601  | 493  | 1.75    | 534                                | 576  | 651  | 676  | 700  | 744  | 808  | 835  | 852  | 908  | 931  | 960  | 1030 |      |
| MGR 2-1000G   | 1.80    | 1596                       | 1368 | 1140 | 878  | 690  | 570  | 1.85    | 603                                | 650  | 735  | 764  | 790  | 840  | 912  | 943  | 962  | 1025 | 1051 | 1085 | 1160 |      |
|               | 1.75    | 1875                       | 1512 | 1295 | 932  | 732  | 605  | 1.80    | 641                                | 690  | 780  | 812  | 840  | 888  | 968  | 1000 | 1020 | 1087 | 1114 | 1152 | 1230 |      |
|               | 1.67    | 2092                       | 1754 | 1440 | 966  | 751  | 615  | 1.75    | 668                                | 720  | 813  | 844  | 875  | 930  | 1008 | 1040 | 1064 | 1136 | 1164 | 1200 | 1280 |      |
| MGR 2-1250G   | 1.80    | 1995                       | 1710 | 1425 | 1098 | 863  | 713  | 1.85    | 753                                | 813  | 919  | 954  | 990  | 1050 | 1142 | 1177 | 1202 | 1283 | 1315 | 1355 | 1448 |      |
|               | 1.75    | 2344                       | 1890 | 1619 | 1165 | 915  | 756  | 1.80    | 800                                | 863  | 975  | 1017 | 1052 | 1113 | 1208 | 1250 | 1275 | 1359 | 1393 | 1440 | 1542 |      |
|               | 1.67    | 2615                       | 2193 | 1800 | 1207 | 939  | 769  | 1.75    | 834                                | 900  | 1016 | 1054 | 1094 | 1163 | 1258 | 1302 | 1325 | 1420 | 1455 | 1500 | 1604 |      |
| MGR 2-1500G   | 1.80    | 2394                       | 2052 | 1710 | 1317 | 1035 | 855  | 1.85    | 755                                | 976  | 1104 | 1148 | 1190 | 1260 | 1376 | 1420 | 1452 | 1539 | 1577 | 1627 | 1740 |      |
|               | 1.75    | 2808                       | 2265 | 1939 | 1395 | 1096 | 906  | 1.80    | 960                                | 1036 | 1170 | 1216 | 1260 | 1338 | 1456 | 1500 | 1536 | 1629 | 1670 | 1723 | 1850 |      |
|               | 1.67    | 3133                       | 2627 | 2156 | 1447 | 1124 | 922  | 1.75    | 999                                | 1078 | 1218 | 1264 | 1310 | 1392 | 1512 | 1560 | 1596 | 1698 | 1740 | 1795 | 1920 |      |
| MGR 2-1800G   | 1.80    | 2873                       | 2462 | 2052 | 1580 | 1241 | 1026 | 1.85    | 862                                | 1172 | 1326 | 1376 | 1425 | 1512 | 1648 | 1700 | 1740 | 1855 | 1901 | 1982 | 2120 |      |
|               | 1.75    | 3377                       | 2723 | 2331 | 1678 | 1319 | 1089 | 1.80    | 879                                | 1242 | 1404 | 1460 | 1510 | 1602 | 1752 | 1800 | 1836 | 1955 | 2004 | 2069 | 2220 |      |
|               | 1.67    | 3768                       | 3158 | 2593 | 1740 | 1352 | 1108 | 1.75    | 932                                | 1296 | 1467 | 1524 | 1580 | 1674 | 1824 | 1880 | 1908 | 2042 | 2093 | 2189 | 2340 |      |
| MGR 2-2000G   | 1.80    | 3192                       | 2736 | 2280 | 1756 | 1379 | 1140 | 1.85    | 972                                | 1302 | 1473 | 1528 | 1585 | 1680 | 1832 | 1890 | 1932 | 2060 | 2112 | 2170 | 2320 |      |
|               | 1.75    | 3752                       | 3026 | 2590 | 1864 | 1465 | 1210 | 1.80    | 1280                               | 1380 | 1560 | 1620 | 1680 | 1782 | 1944 | 2000 | 2040 | 2173 | 2227 | 2299 | 2460 |      |
|               | 1.67    | 4187                       | 3509 | 2881 | 1933 | 1502 | 1231 | 1.75    | 1335                               | 1440 | 1629 | 1692 | 1755 | 1860 | 2024 | 2090 | 2124 | 2269 | 2326 | 2400 | 2570 |      |
| MGR 2-2500G   | 1.80    | 3990                       | 3420 | 2850 | 2195 | 1724 | 1425 | 1.85    | 1509                               | 1628 | 1839 | 1908 | 1980 | 2100 | 2288 | 2360 | 2400 | 2552 | 2616 | 2712 | 2900 |      |
|               | 1.75    | 4689                       | 3782 | 3237 | 2329 | 1830 | 1513 | 1.80    | 1601                               | 1726 | 1950 | 2024 | 2100 | 2226 | 2424 | 2500 | 2556 | 2716 | 2784 | 2875 | 3080 |      |
|               | 1.67    | 5232                       | 4385 | 3601 | 2416 | 1877 | 1539 | 1.75    | 1670                               | 1800 | 2034 | 2112 | 2190 | 2322 | 2528 | 2610 | 2664 | 2833 | 2904 | 3000 | 3210 |      |
| MGR 2-3000G   | 1.80    | 4788                       | 4104 | 3420 | 2633 | 2069 | 1710 | 1.85    | 1811                               | 1952 | 2208 | 2292 | 2375 | 2520 | 2744 | 2830 | 2892 | 3091 | 3168 | 3254 | 3480 |      |
|               | 1.75    | 5628                       | 4539 | 3885 | 2796 | 2197 | 1815 | 1.80    | 1920                               | 2070 | 2340 | 2432 | 2520 | 2670 | 2912 | 3000 | 3060 | 3255 | 3336 | 3451 | 3690 |      |
|               | 1.67    | 6279                       | 5263 | 4321 | 2899 | 2253 | 1847 | 1.75    | 2003                               | 2160 | 2442 | 2536 | 2630 | 2784 | 3040 | 3130 | 3192 | 3395 | 3480 | 3600 | 3850 |      |
| MGR 2-4000G   | 1.80    | 6384                       | 5472 | 4560 | 3512 | 2758 | 2281 | 1.85    | 2415                               | 2604 | 2943 | 3056 | 3170 | 3360 | 3656 | 3770 | 3852 | 4121 | 4224 | 4339 | 4640 |      |
|               | 1.75    | 7504                       | 6052 | 5180 | 3728 | 2929 | 2421 | 1.80    | 2561                               | 2760 | 3120 | 3240 | 3340 | 3360 | 3558 | 3880 | 4000 | 4080 | 4355 | 4464 | 4598 | 4920 |
|               | 1.67    | 8372                       | 7018 | 5762 | 3866 | 3004 | 2462 | 1.75    | 2672                               | 2880 | 3255 | 3380 | 3505 | 3714 | 4048 | 4180 | 4248 | 4519 | 4632 | 4795 | 5130 |      |

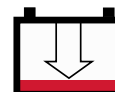
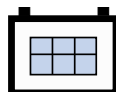
Actual Battery Discharge Data may be +/-5% of figures shown above.



## Modular Gel Range Discharge Amperes Data @ 20°C

| Battery Model | End VPC | Discharge Data Amps @ 20°C |      |      |      |      |      | End VPC | Discharge Data Amps @ 20°C |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------|---------|----------------------------|------|------|------|------|------|---------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|               |         | Discharge Time In Minutes  |      |      |      |      |      |         | Discharge Time In Hours    |      |      |      |      |      |      |      |      |      |      |      |      |
|               |         | 5                          | 10   | 15   | 30   | 45   | 60   |         | 1.5                        | 2    | 3    | 4    | 5    | 6    | 8    | 10   | 12   | 20   | 24   | 48   | 100  |
| MGR 2-100G    | 1.80    | 236                        | 177  | 148  | 97   | 72.6 | 59   | 1.85    | 40.1                       | 32.4 | 24.4 | 19.0 | 15.8 | 13.9 | 11.4 | 9.40 | 7.99 | 5.12 | 4.36 | 2.25 | 1.16 |
|               | 1.75    | 250                        | 187  | 156  | 102  | 76.8 | 62.4 | 1.80    | 42.7                       | 34.5 | 26.0 | 20.3 | 16.8 | 14.8 | 12.1 | 10.0 | 8.5  | 5.41 | 4.64 | 2.40 | 1.23 |
|               | 1.67    | 269                        | 199  | 171  | 105  | 78.7 | 63.4 | 1.75    | 44.4                       | 35.9 | 27.0 | 21.1 | 17.5 | 15.4 | 12.6 | 10.4 | 8.84 | 5.66 | 4.83 | 2.49 | 1.28 |
| MGR 2-150G    | 1.80    | 291                        | 239  | 214  | 140  | 105  | 85.5 | 1.85    | 60.2                       | 48.6 | 36.7 | 28.6 | 23.7 | 20.9 | 17.1 | 14.1 | 12.0 | 7.66 | 6.54 | 3.38 | 1.73 |
|               | 1.75    | 308                        | 253  | 226  | 148  | 111  | 90.5 | 1.80    | 64.0                       | 51.8 | 39.0 | 30.4 | 25.2 | 22.3 | 18.2 | 15.0 | 12.8 | 8.15 | 6.96 | 3.59 | 1.85 |
|               | 1.67    | 322                        | 262  | 249  | 153  | 114  | 92   | 1.75    | 66.6                       | 53.8 | 40.6 | 31.6 | 26.2 | 23.1 | 18.9 | 15.6 | 13.3 | 8.49 | 7.24 | 3.74 | 1.92 |
| MGR 2-200G    | 1.80    | 319                        | 274  | 228  | 176  | 138  | 114  | 1.85    | 80.6                       | 65.2 | 49.1 | 38.3 | 31.8 | 28.0 | 22.9 | 18.9 | 16.2 | 10.2 | 8.77 | 4.53 | 2.32 |
|               | 1.75    | 376                        | 303  | 259  | 187  | 147  | 121  | 1.80    | 85.3                       | 69.0 | 52.0 | 40.5 | 33.6 | 29.7 | 24.3 | 20.0 | 17.0 | 10.9 | 9.28 | 4.79 | 2.46 |
|               | 1.67    | 419                        | 351  | 289  | 194  | 150  | 123  | 1.75    | 89.2                       | 72.1 | 54.3 | 42.3 | 35.1 | 31   | 25.3 | 21   | 17.8 | 11.4 | 9.7  | 5.01 | 2.57 |
| MGR 2-250G    | 1.80    | 399                        | 342  | 285  | 219  | 172  | 143  | 1.85    | 101                        | 81.4 | 61.4 | 47.8 | 39.6 | 35.0 | 28.6 | 23.6 | 20.1 | 12.9 | 11.0 | 5.65 | 2.90 |
|               | 1.75    | 469                        | 378  | 324  | 233  | 183  | 151  | 1.80    | 107                        | 86.3 | 65.0 | 50.6 | 42.0 | 37.1 | 30.3 | 25.0 | 21.3 | 13.6 | 11.6 | 5.99 | 3.08 |
|               | 1.67    | 524                        | 439  | 360  | 242  | 188  | 154  | 1.75    | 110                        | 90.0 | 67.9 | 52.9 | 43.8 | 38.7 | 31.6 | 26.1 | 22.2 | 14.1 | 12.1 | 6.25 | 3.21 |
| MGR 2-300G    | 1.80    | 479                        | 410  | 342  | 263  | 207  | 171  | 1.85    | 121                        | 98.0 | 73.6 | 57.3 | 47.5 | 42.0 | 34.3 | 28.3 | 24.1 | 15.3 | 13.1 | 6.78 | 3.48 |
|               | 1.75    | 563                        | 454  | 388  | 280  | 220  | 182  | 1.80    | 128                        | 104  | 78.0 | 60.8 | 50.4 | 44.5 | 36.4 | 30.0 | 25.5 | 16.4 | 14.0 | 7.19 | 3.69 |
|               | 1.67    | 628                        | 526  | 432  | 290  | 225  | 185  | 1.75    | 134                        | 108  | 81.4 | 63.4 | 52.6 | 46.4 | 38.0 | 31.3 | 26.6 | 17.0 | 14.5 | 7.50 | 3.85 |
| MGR 2-400G    | 1.80    | 638                        | 547  | 456  | 351  | 276  | 228  | 1.85    | 161                        | 130  | 98.0 | 76.3 | 63.3 | 55.9 | 45.7 | 37.7 | 32.0 | 20.5 | 17.5 | 9.03 | 4.64 |
|               | 1.75    | 750                        | 605  | 518  | 372  | 293  | 242  | 1.80    | 171                        | 138  | 104  | 81.0 | 67.2 | 59.3 | 48.5 | 40.0 | 34.0 | 21.8 | 18.6 | 9.58 | 5.00 |
|               | 1.67    | 837                        | 701  | 576  | 386  | 300  | 246  | 1.75    | 178                        | 144  | 108  | 84.4 | 70.1 | 61.9 | 50.6 | 42.0 | 35.4 | 22.7 | 19.4 | 9.99 | 5.13 |
| MGR 2-500G    | 1.80    | 798                        | 684  | 570  | 439  | 345  | 285  | 1.85    | 201                        | 163  | 123  | 95.6 | 79.3 | 70.0 | 57.2 | 47.2 | 40.1 | 25.8 | 22.0 | 11.3 | 5.81 |
|               | 1.75    | 939                        | 757  | 648  | 466  | 366  | 303  | 1.80    | 213                        | 173  | 130  | 101  | 84.0 | 74.2 | 60.6 | 50.0 | 42.5 | 27.3 | 23.3 | 12.0 | 6.15 |
|               | 1.67    | 1047                       | 878  | 721  | 484  | 376  | 308  | 1.75    | 223                        | 180  | 136  | 106  | 87.7 | 77.4 | 63.3 | 52.2 | 44.4 | 28.3 | 24.2 | 12.5 | 6.42 |
| MGR 2-600G    | 1.80    | 958                        | 821  | 684  | 527  | 414  | 342  | 1.85    | 241                        | 195  | 147  | 115  | 95.1 | 84.0 | 68.6 | 56.6 | 48.1 | 30.8 | 26.3 | 13.6 | 6.96 |
|               | 1.75    | 1126                       | 908  | 777  | 559  | 439  | 363  | 1.80    | 256                        | 207  | 156  | 122  | 101  | 89.0 | 72.8 | 60.0 | 51.0 | 32.8 | 28.0 | 14.4 | 7.38 |
|               | 1.67    | 1256                       | 1053 | 864  | 580  | 451  | 369  | 1.75    | 267                        | 216  | 163  | 127  | 105  | 92.9 | 75.9 | 62.6 | 53.2 | 34.0 | 29.1 | 15.0 | 7.70 |
| MGR 2-700G    | 1.80    | 1186                       | 1016 | 846  | 652  | 512  | 423  | 1.85    | 298                        | 242  | 182  | 142  | 118  | 104  | 79.5 | 65.8 | 55.9 | 36.0 | 30.8 | 16.9 | 8.61 |
|               | 1.75    | 1394                       | 1123 | 962  | 692  | 543  | 450  | 1.80    | 317                        | 257  | 193  | 151  | 125  | 110  | 82.7 | 70.0 | 59.5 | 37.2 | 31.8 | 17.8 | 9.13 |
|               | 1.67    | 1554                       | 1303 | 1069 | 718  | 558  | 457  | 1.75    | 331                        | 267  | 202  | 157  | 130  | 115  | 88.0 | 73.2 | 62.2 | 37.9 | 32.3 | 18.6 | 9.52 |
| MGR 2-800G    | 1.80    | 1277                       | 1094 | 912  | 702  | 552  | 456  | 1.85    | 322                        | 260  | 196  | 153  | 127  | 112  | 91.5 | 75.5 | 64.2 | 41.0 | 35.0 | 18.1 | 9.29 |
|               | 1.75    | 1501                       | 1211 | 1036 | 746  | 586  | 484  | 1.80    | 341                        | 276  | 208  | 162  | 134  | 119  | 97.0 | 80.0 | 68.0 | 43.4 | 37.1 | 19.2 | 9.84 |
|               | 1.67    | 1675                       | 1404 | 1153 | 773  | 601  | 493  | 1.75    | 356                        | 288  | 217  | 169  | 140  | 124  | 101  | 83.5 | 71.0 | 45.4 | 38.8 | 20.0 | 10.3 |
| MGR 2-1000G   | 1.80    | 1596                       | 1368 | 1140 | 878  | 690  | 570  | 1.85    | 402                        | 325  | 245  | 191  | 158  | 140  | 114  | 94.3 | 80.2 | 51.3 | 43.8 | 22.6 | 11.6 |
|               | 1.75    | 1875                       | 1512 | 1295 | 932  | 732  | 605  | 1.80    | 427                        | 345  | 260  | 203  | 168  | 148  | 121  | 100  | 85.0 | 54.3 | 46.4 | 24.0 | 12.3 |
|               | 1.67    | 2092                       | 1754 | 1440 | 966  | 751  | 615  | 1.75    | 445                        | 360  | 271  | 211  | 175  | 155  | 126  | 104  | 88.7 | 56.8 | 48.5 | 25.0 | 12.8 |
| MGR 2-1250G   | 1.80    | 1995                       | 1710 | 1425 | 1098 | 863  | 713  | 1.85    | 502                        | 406  | 306  | 239  | 198  | 175  | 143  | 118  | 100  | 64.1 | 54.8 | 28.2 | 14.5 |
|               | 1.75    | 2344                       | 1890 | 1619 | 1165 | 915  | 756  | 1.80    | 533                        | 431  | 325  | 254  | 210  | 185  | 151  | 125  | 106  | 68.0 | 58.0 | 30.0 | 15.4 |
|               | 1.67    | 2615                       | 2193 | 1800 | 1207 | 939  | 769  | 1.75    | 556                        | 450  | 339  | 264  | 219  | 194  | 157  | 130  | 110  | 71.0 | 60.6 | 31.3 | 16.0 |
| MGR 2-1500G   | 1.80    | 2394                       | 2052 | 1710 | 1317 | 1035 | 855  | 1.85    | 604                        | 488  | 368  | 287  | 238  | 210  | 172  | 142  | 121  | 76.9 | 65.7 | 33.9 | 17.4 |
|               | 1.75    | 2808                       | 2265 | 1939 | 1395 | 1096 | 906  | 1.80    | 640                        | 518  | 390  | 304  | 252  | 223  | 182  | 150  | 128  | 81.5 | 69.6 | 35.9 | 18.5 |
|               | 1.67    | 3133                       | 2627 | 2156 | 1447 | 1124 | 922  | 1.75    | 666                        | 539  | 406  | 316  | 262  | 232  | 189  | 156  | 133  | 84.9 | 72.5 | 37.4 | 19.2 |
| MGR 2-1800G   | 1.80    | 2873                       | 2462 | 2052 | 1580 | 1241 | 1026 | 1.85    | 725                        | 586  | 442  | 344  | 285  | 252  | 206  | 170  | 145  | 92.7 | 79.2 | 41.3 | 21.2 |
|               | 1.75    | 3377                       | 2723 | 2331 | 1678 | 1319 | 1089 | 1.80    | 768                        | 621  | 468  | 365  | 302  | 267  | 219  | 180  | 153  | 97.8 | 83.5 | 43.1 | 22.2 |
|               | 1.67    | 3768                       | 3158 | 2593 | 1740 | 1352 | 1108 | 1.75    | 801                        | 648  | 489  | 381  | 316  | 279  | 228  | 188  | 159  | 102  | 87.2 | 45.6 | 23.4 |
| MGR 2-2000G   | 1.80    | 3192                       | 2736 | 2280 | 1756 | 1379 | 1140 | 1.85    | 805                        | 651  | 491  | 382  | 317  | 280  | 229  | 189  | 161  | 103  | 88.0 | 45.2 | 23.2 |
|               | 1.75    | 3752                       | 3026 | 2590 | 1864 | 1465 | 1210 | 1.80    | 853                        | 690  | 520  | 405  | 336  | 297  | 243  | 200  | 170  | 109  | 92.8 | 47.9 | 24.6 |
|               | 1.67    | 4187                       | 3509 | 2881 | 1933 | 1502 | 1231 | 1.75    | 890                        | 720  | 543  | 423  | 351  | 310  | 253  | 209  | 177  | 113  | 96.9 | 50.0 | 25.7 |
| MGR 2-2500G   | 1.80    | 3990                       | 3420 | 2850 | 2195 | 1724 | 1425 | 1.85    | 1006                       | 814  | 613  | 477  | 396  | 350  | 286  | 236  | 200  | 128  | 109  | 56.5 | 29.0 |
|               | 1.75    | 4689                       | 3782 | 3237 | 2329 | 1830 | 1513 | 1.80    | 1067                       | 863  | 650  | 506  | 420  | 371  | 303  | 250  | 213  | 136  | 116  | 59.9 | 30.8 |
|               | 1.67    | 5232                       | 4385 | 3601 | 2416 | 1877 | 1539 | 1.75    | 1113                       | 900  | 678  | 528  | 438  | 387  | 316  | 261  | 222  | 142  | 121  | 62.5 | 32.1 |
| MGR 2-3000G   | 1.80    | 4788                       | 4104 | 3420 | 2633 | 2069 | 1710 | 1.85    | 1207                       | 976  | 736  | 573  | 475  | 420  | 343  | 283  | 241  | 155  | 132  | 67.8 | 34.8 |
|               | 1.75    | 5628                       | 4539 | 3885 | 2796 | 2197 | 1815 | 1.80    | 1280                       | 1035 | 780  | 608  | 504  | 445  | 364  | 300  | 255  | 163  | 139  | 71.9 | 36.9 |
|               | 1.67    | 6279                       | 5263 | 4321 | 2899 | 2253 | 1847 | 1.75    | 1335                       | 1080 | 814  | 634  | 526  | 464  | 380  | 313  | 266  | 170  | 145  | 75.0 | 38.5 |
| MGR 2-4000G   | 1.80    | 6384                       | 5472 | 4560 | 3512 | 2758 | 2281 | 1.85    | 1610                       | 1302 | 981  | 764  | 634  | 560  | 457  | 377  | 321  | 206  | 176  | 90.4 | 46.4 |
|               | 1.75    | 7504                       | 6052 | 5180 | 3728 | 2929 | 2421 | 1.80    | 1707                       | 1380 | 1040 | 810  | 672  | 593  | 485  | 400  | 340  | 218  | 186  | 95.8 | 49.2 |
|               | 1.67    | 8372                       | 7018 | 5762 | 3866 | 3004 | 2462 | 1.75    | 1781                       | 1440 | 1085 | 845  | 701  | 619  | 506  | 418  | 354  | 226  | 193  | 99.9 | 51.3 |

Actual Battery Discharge Data may be +/-5% of figures shown above.

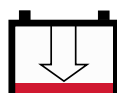
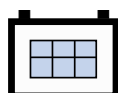




## Modular Gel Range Discharge Watts Per Cell (WPC) Data @ 20°C

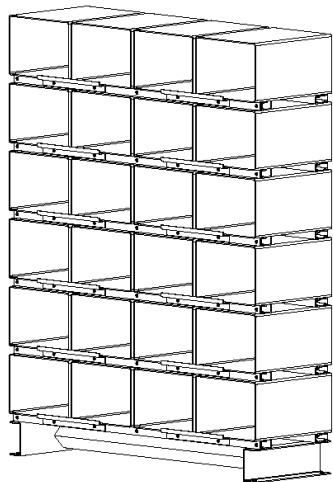
| Battery Model | End VPC | Discharge Watts Per Cell @ 20°C |       |       |      |      |      | End VPC | Discharge Watts Per Cell @ 20°C |      |      |      |      |      |      |      |      |      |      |
|---------------|---------|---------------------------------|-------|-------|------|------|------|---------|---------------------------------|------|------|------|------|------|------|------|------|------|------|
|               |         | Discharge Time In Minutes       |       |       |      |      |      |         | Discharge Time In Hours         |      |      |      |      |      |      |      |      |      |      |
|               |         | 5                               | 10    | 15    | 30   | 45   | 60   |         | 1.5                             | 2    | 3    | 4    | 5    | 6    | 8    | 10   | 12   | 20   | 24   |
| MGR 2-100G    | 1.80    | 425                             | 322   | 271   | 179  | 138  | 113  | 1.85    | 77.2                            | 62.7 | 47.6 | 37.3 | 31.1 | 27.6 | 22.6 | 18.7 | 16.0 | 8.98 | 8.76 |
|               | 1.75    | 444                             | 337   | 282   | 189  | 143  | 120  | 1.80    | 81.5                            | 66.2 | 50.4 | 39.5 | 32.9 | 29.2 | 24.0 | 19.8 | 16.9 | 9.51 | 9.28 |
|               | 1.67    | 465                             | 358   | 307   | 193  | 146  | 121  | 1.75    | 83.6                            | 68.1 | 51.9 | 40.7 | 33.9 | 30.1 | 24.7 | 20.5 | 17.4 | 9.83 | 9.59 |
| MGR 2-150G    | 1.80    | 523                             | 436   | 392   | 259  | 200  | 164  | 1.85    | 116                             | 94.0 | 71.5 | 56.0 | 46.7 | 41.3 | 34.0 | 28.1 | 24.0 | 13.4 | 13.1 |
|               | 1.75    | 548                             | 456   | 409   | 275  | 207  | 174  | 1.80    | 122                             | 99   | 75.5 | 59.2 | 49.4 | 43.7 | 36.0 | 29.8 | 25.4 | 14.2 | 13.9 |
|               | 1.67    | 554                             | 459   | 427   | 280  | 212  | 176  | 1.75    | 125                             | 102  | 77.8 | 61.0 | 50.9 | 45.1 | 37.1 | 30.7 | 26.2 | 14.8 | 14.4 |
| MGR 2-200G    | 1.80    | 575                             | 498   | 439   | 325  | 262  | 219  | 1.85    | 155                             | 126  | 95.8 | 75.1 | 62.6 | 55.4 | 45.5 | 37.7 | 32.1 | 18.1 | 17.7 |
|               | 1.75    | 669                             | 545   | 470   | 345  | 273  | 233  | 1.80    | 163                             | 132  | 101  | 79.0 | 65.8 | 58.3 | 47.9 | 39.7 | 33.8 | 19.1 | 18.6 |
|               | 1.67    | 721                             | 615   | 516   | 354  | 280  | 236  | 1.75    | 168                             | 137  | 104  | 81.8 | 68.2 | 60.4 | 49.7 | 41.3 | 35.2 | 19.8 | 19.3 |
| MGR 2-250G    | 1.80    | 725                             | 622   | 523   | 406  | 328  | 274  | 1.85    | 194                             | 157  | 120  | 93.8 | 78.1 | 69.2 | 56.9 | 47.1 | 40.1 | 22.6 | 22   |
|               | 1.75    | 835                             | 681   | 586   | 431  | 341  | 291  | 1.80    | 204                             | 166  | 126  | 99.0 | 82.3 | 72.9 | 59.9 | 49.6 | 42.3 | 23.8 | 23.2 |
|               | 1.67    | 901                             | 768   | 645   | 442  | 349  | 294  | 1.75    | 210                             | 171  | 130  | 102  | 85.2 | 75.5 | 62.0 | 51.4 | 43.8 | 24.7 | 24.1 |
| MGR 2-300G    | 1.80    | 862                             | 747   | 628   | 487  | 393  | 328  | 1.85    | 232                             | 189  | 143  | 112  | 93.7 | 83.0 | 68.2 | 56.4 | 48.1 | 27.1 | 26.4 |
|               | 1.75    | 1002                            | 817   | 703   | 517  | 409  | 349  | 1.80    | 244                             | 199  | 151  | 118  | 99.0 | 87.5 | 71.9 | 59.5 | 50.7 | 28.7 | 28   |
|               | 1.67    | 1080                            | 921   | 774   | 531  | 419  | 353  | 1.75    | 252                             | 205  | 156  | 122  | 102  | 90.5 | 74.4 | 61.6 | 52.5 | 29.6 | 28.9 |
| MGR 2-400G    | 1.80    | 1149                            | 996   | 837   | 650  | 524  | 438  | 1.85    | 309                             | 251  | 191  | 150  | 125  | 111  | 90.8 | 75.2 | 64.1 | 36.0 | 35.1 |
|               | 1.75    | 1335                            | 1088  | 937   | 689  | 544  | 464  | 1.80    | 326                             | 265  | 201  | 158  | 132  | 117  | 95.9 | 79.4 | 67.6 | 38.0 | 37.1 |
|               | 1.67    | 1439                            | 1227  | 1031  | 707  | 558  | 470  | 1.75    | 335                             | 273  | 208  | 163  | 136  | 121  | 99.1 | 82.1 | 69.9 | 39.4 | 38.4 |
| MGR 2-500G    | 1.80    | 1436                            | 1245  | 1046  | 812  | 655  | 547  | 1.85    | 387                             | 315  | 239  | 188  | 156  | 138  | 114  | 94.1 | 80.2 | 45.1 | 44   |
|               | 1.75    | 1671                            | 1362  | 1173  | 863  | 681  | 581  | 1.80    | 407                             | 331  | 252  | 197  | 165  | 146  | 120  | 99.2 | 84.5 | 47.6 | 46.4 |
|               | 1.67    | 1801                            | 1536  | 1290  | 885  | 699  | 588  | 1.75    | 420                             | 342  | 260  | 204  | 170  | 151  | 124  | 103  | 87.5 | 49.3 | 48.1 |
| MGR 2-600G    | 1.80    | 1724                            | 1494  | 1255  | 974  | 786  | 657  | 1.85    | 465                             | 377  | 287  | 225  | 187  | 166  | 136  | 113  | 96.2 | 54.0 | 52.7 |
|               | 1.75    | 2003                            | 1634  | 1406  | 1034 | 817  | 697  | 1.80    | 489                             | 397  | 302  | 237  | 197  | 175  | 144  | 119  | 101  | 57.1 | 55.7 |
|               | 1.67    | 2160                            | 1842  | 1547  | 1061 | 838  | 705  | 1.75    | 503                             | 410  | 312  | 245  | 204  | 181  | 149  | 123  | 105  | 59.1 | 57.7 |
| MGR 2-700G    | 1.80    | 2133                            | 1849  | 1553  | 1206 | 973  | 812  | 1.85    | 574                             | 467  | 354  | 278  | 231  | 205  | 158  | 132  | 111  | 63.3 | 61.7 |
|               | 1.75    | 2478                            | 2020  | 1739  | 1279 | 1011 | 862  | 1.80    | 605                             | 492  | 374  | 293  | 245  | 216  | 163  | 139  | 119  | 65.2 | 63.6 |
|               | 1.67    | 2671                            | 2278  | 1913  | 1313 | 1036 | 872  | 1.75    | 623                             | 507  | 386  | 303  | 252  | 224  | 173  | 144  | 123  | 65.9 | 64.3 |
| MGR 2-800G    | 1.80    | 2298                            | 1992  | 1674  | 1299 | 1048 | 876  | 1.85    | 620                             | 503  | 383  | 300  | 250  | 221  | 182  | 151  | 128  | 72.1 | 70.3 |
|               | 1.75    | 2672                            | 2179  | 1876  | 1380 | 1090 | 930  | 1.80    | 652                             | 530  | 403  | 316  | 263  | 233  | 192  | 159  | 135  | 76.2 | 74.3 |
|               | 1.67    | 2881                            | 2457  | 2064  | 1415 | 1118 | 941  | 1.75    | 672                             | 547  | 416  | 327  | 272  | 241  | 198  | 165  | 140  | 78.9 | 77   |
| MGR 2-1000G   | 1.80    | 2873                            | 2490  | 2092  | 1624 | 1310 | 1094 | 1.85    | 774                             | 629  | 478  | 375  | 312  | 277  | 227  | 186  | 160  | 90.0 | 87.8 |
|               | 1.75    | 3338                            | 2722  | 2343  | 1723 | 1361 | 1161 | 1.80    | 815                             | 662  | 504  | 395  | 329  | 292  | 240  | 198  | 169  | 95.1 | 92.8 |
|               | 1.67    | 3599                            | 3069  | 2578  | 1768 | 1396 | 1175 | 1.75    | 839                             | 683  | 520  | 408  | 340  | 302  | 248  | 205  | 175  | 98.5 | 96.1 |
| MGR 2-1250G   | 1.80    | 3591                            | 3113  | 2615  | 2030 | 1638 | 1368 | 1.85    | 968                             | 786  | 597  | 468  | 390  | 346  | 283  | 235  | 200  | 112  | 109  |
|               | 1.75    | 4173                            | 3403  | 2930  | 2155 | 1702 | 1452 | 1.80    | 1018                            | 828  | 630  | 494  | 411  | 365  | 300  | 248  | 211  | 119  | 116  |
|               | 1.67    | 4499                            | 3838  | 3223  | 2210 | 1746 | 1469 | 1.75    | 1049                            | 854  | 650  | 510  | 425  | 377  | 310  | 256  | 219  | 123  | 120  |
| MGR 2-1500G   | 1.80    | 4309                            | 3735  | 3138  | 2436 | 1966 | 1642 | 1.85    | 1162                            | 944  | 717  | 562  | 468  | 415  | 341  | 282  | 240  | 135  | 132  |
|               | 1.75    | 4999                            | 4077  | 3509  | 2581 | 2039 | 1739 | 1.80    | 1222                            | 994  | 755  | 592  | 494  | 437  | 360  | 298  | 254  | 142  | 139  |
|               | 1.67    | 5389                            | 4596  | 3860  | 2648 | 2091 | 1760 | 1.75    | 1256                            | 1023 | 779  | 611  | 510  | 452  | 371  | 307  | 262  | 148  | 144  |
| MGR 2-1800G   | 1.80    | 5171                            | 4482  | 3766  | 2923 | 2359 | 1970 | 1.85    | 1394                            | 1132 | 860  | 675  | 563  | 498  | 410  | 338  | 289  | 162  | 158  |
|               | 1.75    | 6011                            | 4902  | 4220  | 3104 | 2452 | 2092 | 1.80    | 1466                            | 1193 | 906  | 711  | 592  | 525  | 431  | 357  | 304  | 171  | 167  |
|               | 1.67    | 6481                            | 5527  | 4642  | 3184 | 2515 | 2117 | 1.75    | 1511                            | 1230 | 937  | 734  | 613  | 543  | 446  | 370  | 315  | 177  | 173  |
| MGR 2-2000G   | 1.80    | 5746                            | 4980  | 4184  | 3248 | 2621 | 2189 | 1.85    | 1549                            | 1258 | 956  | 750  | 625  | 553  | 455  | 376  | 321  | 180  | 176  |
|               | 1.75    | 6679                            | 5447  | 4689  | 3449 | 2724 | 2324 | 1.80    | 1629                            | 1325 | 1007 | 790  | 658  | 583  | 479  | 397  | 338  | 191  | 186  |
|               | 1.67    | 7201                            | 6141  | 5158  | 3538 | 2794 | 2352 | 1.75    | 1679                            | 1367 | 1041 | 816  | 681  | 603  | 496  | 411  | 350  | 197  | 192  |
| MGR 2-2500G   | 1.80    | 7182                            | 6224  | 5230  | 4060 | 3276 | 2736 | 1.85    | 1936                            | 1573 | 1195 | 937  | 780  | 691  | 568  | 470  | 401  | 226  | 220  |
|               | 1.75    | 8347                            | 6807  | 5859  | 4310 | 3404 | 2904 | 1.80    | 2036                            | 1656 | 1259 | 987  | 823  | 729  | 599  | 496  | 423  | 238  | 232  |
|               | 1.67    | 8998                            | 7674  | 6445  | 4421 | 3492 | 2939 | 1.75    | 2098                            | 1708 | 1310 | 1020 | 851  | 754  | 620  | 513  | 437  | 246  | 240  |
| MGR 2-3000G   | 1.80    | 8618                            | 7469  | 6276  | 4872 | 3931 | 3283 | 1.85    | 2323                            | 1887 | 1434 | 1124 | 937  | 830  | 682  | 564  | 481  | 272  | 265  |
|               | 1.75    | 10017                           | 8169  | 7032  | 5172 | 4086 | 3486 | 1.80    | 2444                            | 1987 | 1511 | 1185 | 987  | 875  | 719  | 595  | 507  | 286  | 279  |
|               | 1.67    | 10800                           | 7210  | 7735  | 5306 | 4191 | 3527 | 1.75    | 2517                            | 2050 | 1561 | 1225 | 1021 | 905  | 744  | 616  | 525  | 296  | 289  |
| MGR 2-4000G   | 1.80    | 11491                           | 9959  | 8368  | 6496 | 5242 | 4377 | 1.85    | 3098                            | 2516 | 1912 | 1499 | 1249 | 1106 | 909  | 752  | 641  | 360  | 351  |
|               | 1.75    | 13357                           | 10892 | 9376  | 6897 | 5448 | 4647 | 1.80    | 3258                            | 2649 | 2015 | 1579 | 1316 | 1167 | 959  | 794  | 676  | 380  | 371  |
|               | 1.67    | 14400                           | 12282 | 10314 | 7074 | 5588 | 4703 | 1.75    | 3357                            | 2732 | 2081 | 1633 | 1362 | 1206 | 992  | 822  | 700  | 394  | 384  |

Actual Battery Discharge Data may be +/-5% of figures shown above.

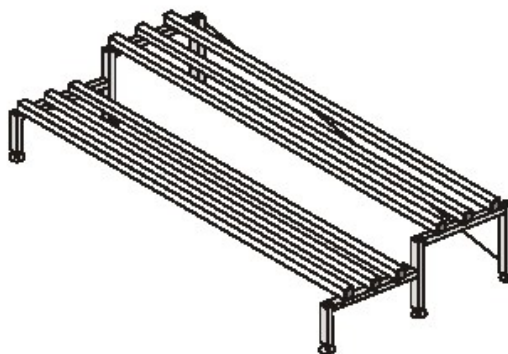


## MODULAR GEL RANGE – HORIZONTAL & VERTICAL RACKING SYSTEMS

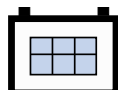
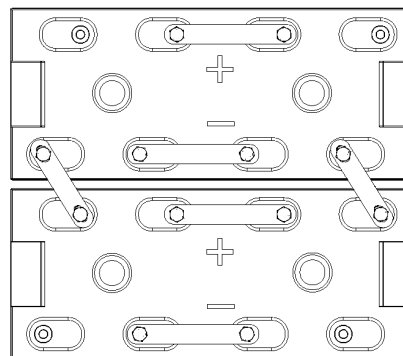
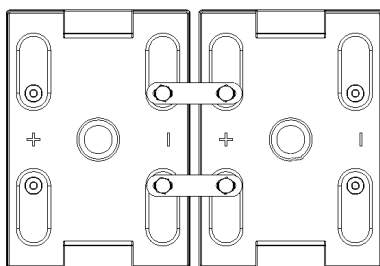
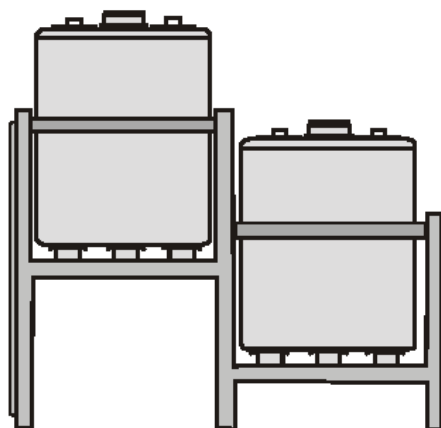
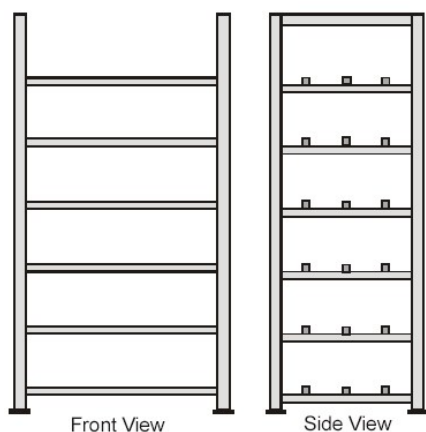
Modular Gel Range batteries can be mounted on / in vertical or horizontal racking system. It is not recommended to mount batteries larger than 1250AH in horizontal position.



Typical rack for horizontal configuration of Modular Gel Range batteries

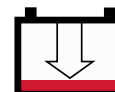
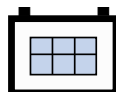
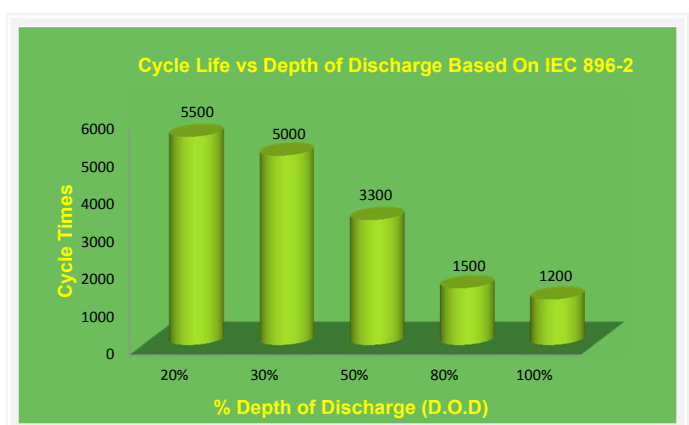
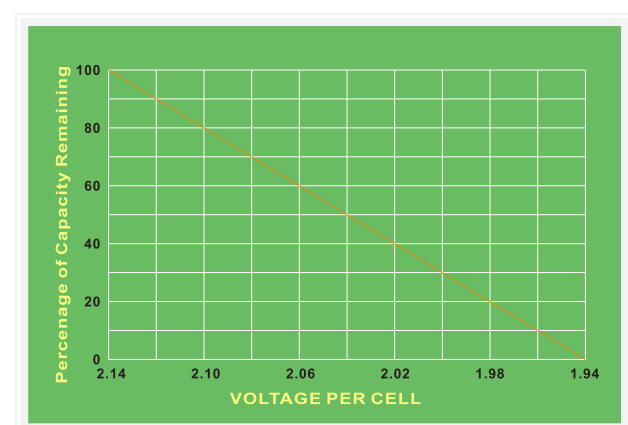
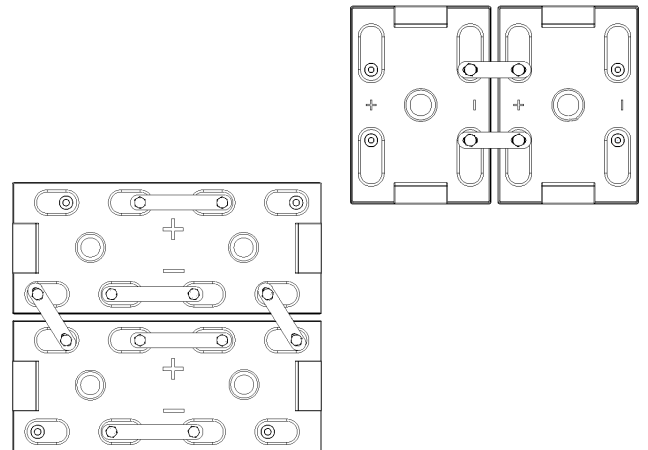
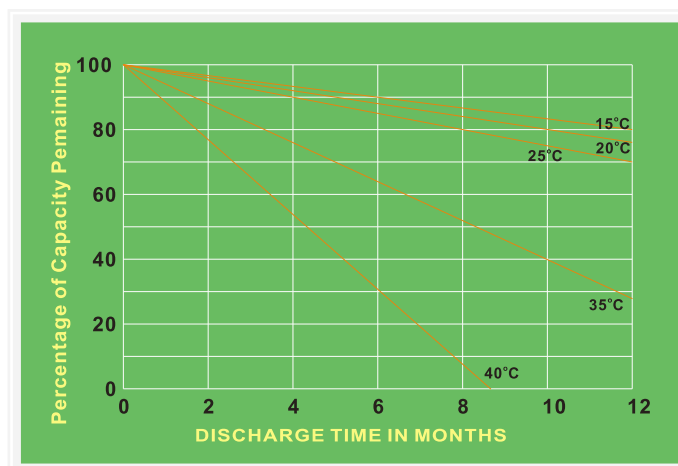
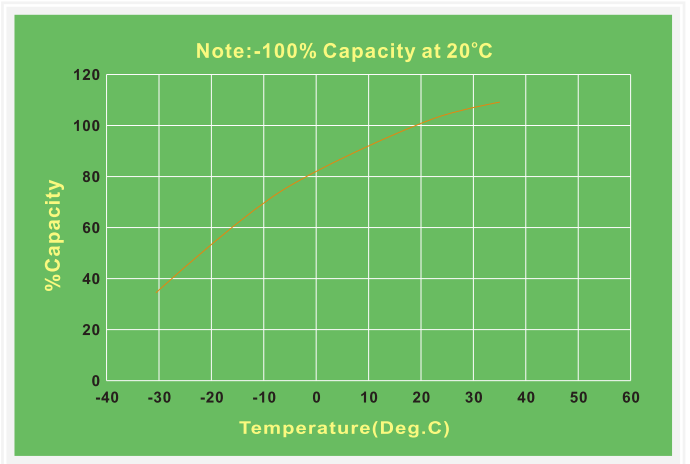
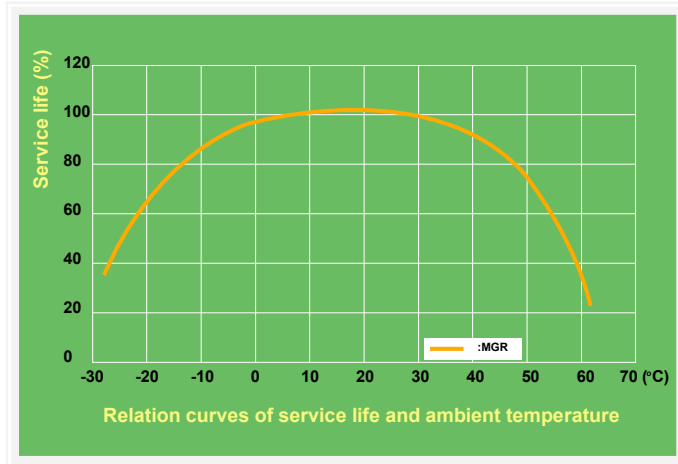


Typical rack for vertical configuration of Modular Gel Range batteries





## MODULAR GEL RANGE PERFORMANCE CURVES



***EverExceed<sup>®</sup>***  
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