



EverExceed[®]
power your applications

Deep Cycle Gel Range VRLA



»Premium quality for uninterrupted communication«



www.everexceed.com



Deep Cycle Gel Range VRLA

30 Ah to 300 Ah @ C20

The extremely powerful and reliable EverExceed's Deep Cycle Gel Range VRLA batteries perfectly fulfills the requirements for many different applications including telecommunications, Home Medical Equipment (HME) / mobility, industrial and utility applications where frequent deep cycles are required and minimum maintenance is desirable. Our development team combines the market's demand with design optimization, precision component selection and state-of-the-art manufacturing process to produce the most cost effective battery solution for today's applications.

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:
24 months at 20°C / 68°F.
For each 9°C / 15°F rise, reduce the storage time by half.

Designed in Quality Manufacturing

Advanced Germany technology and the use of the most modern computer-aided design and manufacturing techniques combine to make EverExceed's Deep Cycle Gel Range Batteries the ideal power solution for your applications. Each and every unit is capacity tested.

Applications

- Telecommunication
- Water Pumping
- Residential
- Cathodic Protection
- Solar / Photovoltaic
- Wind Generation
- Lighting

Compliant Standards

- IEC 60896-21/22-2004
- DIN 43539-T5
- GB/T 22473-2008
- IEC 61427-2005
- YD/T 1360-2005
- BS 6290 PART 4

Innovative Features

- ◆ Exceptional energy storage capacity combined with long life - BCI Classification;
- ◆ Thick positive plate design for maximum service float life - 15 years design life @ 20°C (68°F);
- ◆ Thick positive plate plus optimized high tin plate alloy to anti-corrosion;
- ◆ Spill-proof and leak-proof;
- ◆ Maintenance-free (no topping up) during the whole service life due to EverExceed GEL technology;
- ◆ 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.
- ◆ Flame-arresting one-way pressure-relief vent for safe and long life;
- ◆ Micro porous rubber and corrugated PVC SiO₂ separator, the special design increase the high porosity and anti-corrosion and decrease the internal resistance;
- ◆ Electrolyte in solid gel form will not stratify no equalization charge required;
- ◆ Sulfuric acid thixotropic gel, gel powder from Europe leading supplier to ensure the unique performance of gel battery;
- ◆ Increased durability and deep cycle ability for heavy duty applications;
- ◆ Fully tank formed grid Lead Calcium Tin plate ensures voltage matching between cells;
- ◆ Shelf life up to 2 years at 20°C (68°F), very low gassing due to internal gas recombination;
- ◆ Unique performance against high temperature.

Specifications

| | |
|-----------------|-------------------------------------|
| Voltage | 6 & 12 volts nominal |
| Plate alloy | Lead-Calcium-Tin alloy |
| Element, post | Silver plated Copper female insert |
| Container/cover | Reinforced ABS, UL V-0 on quest |
| Specific | 1.280g/cm ³ |
| Electrolyte | Sulfuric acid thixotropic solid gel |
| Vent | Self sealing (2 PSI operation) |

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.



GEL BATTERY CONSTRUCTION - 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 high purity lead (99.994%) to minimize the negative effects of impurities.

Gel separator is supplied by the leading manufacturer in the field, utilizing the latest world technology. The base material is a micro porous 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, thus removing the possibility of short circuits whilst allowing the active material to fully react with the electrolyte. The random weaving also results in an open structure, which offers minimal resistance to the flow of electrolyte during filling.



- ❶ **Plates:** Calcium-Tin alloy, optimized for high corrosion resistance.
- ❷ **Separator:** Microporous and robust, for Electrical separation of the positive and negative plates and optimized for low internal resistance.
- ❸ **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%.
- ❹ **Terminals:** Silver plated Copper female insert for easy and safe assembly and maintenance free connection with excellent conductivity.
- ❺ **Valves:** Release gas in case of excess pressure and protects the cell against atmosphere.

GELLED ELECTROLYTE FILLING - Gelled electrolyte is filled into the cell by means of custom-built vacuum filling machines. To achieve reliable performance it is vitally important that the electrolyte achieves full penetration of the separators and plates therefore, vacuum cycling is utilized after the filling process. To ensure each cell has the correct amount of gel, the cells are first overfilled, the extra gel then removed. The V.R.L.A. Gel battery design and construction negates the need for electrolyte addition and the battery remains maintenance free throughout its design life.

SAFETY RELEASE VALVE - Those Gel batteries will operate above atmospheric pressure under normal operating conditions, however the maximum pressure is governed by the safety one-way release valve. Open action is activated by internal pressures in excess of approx. 2 PSI (14Kpa), resealing at approx. 1.2 PSI (8.4Kpa).

GAS RECOMBINATION - The gasses generated during normal operation of the battery are internally recombined. In fact more than 99% of the gas achieves recombination.

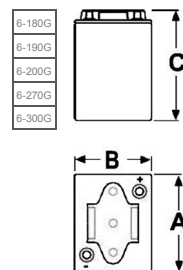
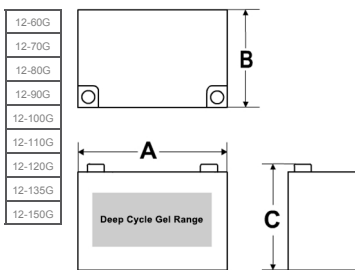
TERMINAL CONSTRUCTION - The contact quality between the copper insert female terminal and the lead post is of vital importance during short duration / high Amps discharge. Elevated terminal temperatures are the result of poor contact, eventually causing seal degradation and electrolyte leaks. EverExceed's tin plated copper terminal design and fusion welding plus epoxy sealing assembly technique for terminal casting ensures trouble free operation and high performance.



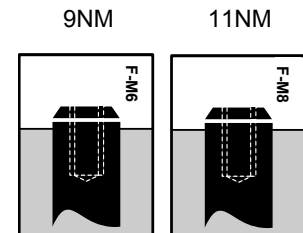
Deep Cycle Gel Range Electrical Specifications & Dimensions

| Battery Model | Nom. Voltage (V) | Capacity C20 to 1.75VPC | Capacity C100 to 1.75VPC | Short Circuit current Amps | Internal Resistance Milliohms | Female Terminal Type | Battery Weight | | Outline Dimensions | | | | | |
|---------------|------------------|-------------------------|--------------------------|----------------------------|-------------------------------|----------------------|----------------|------|--------------------|-----|-------|-----|--------|-----|
| | | | | | | | | | Length | | Width | | Height | |
| | | | | | | | Kg | lbs | inch | mm | inch | mm | inch | mm |
| 12-30G | 12 | 30 | 33.0 | 780 | 12.0 | F-M5 | 11.5 | 25.3 | 7.68 | 195 | 5.12 | 130 | 6.26 | 154 |
| 12-38G | 12 | 38 | 41.8 | 935 | 10.7 | F-M6 | 14.3 | 31.5 | 7.76 | 197 | 6.50 | 165 | 6.69 | 172 |
| 12-50G | 12 | 50 | 55.0 | 1080 | 8.5 | F-M6 | 17.5 | 38.5 | 9.06 | 230 | 5.43 | 138 | 8.43 | 210 |
| 12-60G | 12 | 60 | 66.0 | 1170 | 7.6 | F-M6 | 22.5 | 49.5 | 13.8 | 350 | 6.61 | 168 | 7.00 | 178 |
| 12-70G | 12 | 70 | 78.0 | 1380 | 7.3 | F-M6 | 24.5 | 53.9 | 10.2 | 259 | 6.61 | 168 | 8.46 | 215 |
| 12-80G | 12 | 80 | 89.0 | 1620 | 6.8 | F-M6 | 28.0 | 61.6 | 12.0 | 305 | 6.61 | 168 | 8.46 | 215 |
| 12-90G | 12 | 90 | 100 | 1730 | 6.2 | F-M6 | 30.0 | 66.0 | 12.0 | 305 | 6.61 | 168 | 8.46 | 215 |
| 12-100G | 12 | 100 | 111 | 1810 | 5.8 | F-M6 | 32.5 | 71.5 | 13.1 | 332 | 6.85 | 174 | 8.66 | 220 |
| 12-110G | 12 | 110 | 123 | 1900 | 5.5 | F-M8 | 35.5 | 78.1 | 16.1 | 408 | 6.89 | 175 | 9.37 | 230 |
| 12-120G | 12 | 120 | 134 | 2050 | 5.0 | F-M8 | 38.5 | 84.7 | 16.1 | 408 | 6.89 | 175 | 9.37 | 230 |
| 12-135G | 12 | 135 | 151 | 2210 | 4.5 | F-M8 | 46.0 | 101 | 18.9 | 480 | 6.69 | 170 | 9.45 | 240 |
| 12-150G | 12 | 150 | 168 | 2550 | 4.0 | F-M8 | 48.5 | 107 | 18.9 | 480 | 6.69 | 170 | 9.45 | 240 |
| 12-160G | 12 | 160 | 179 | 2580 | 3.8 | F-M8 | 58.0 | 128 | 20.5 | 520 | 9.37 | 238 | 8.86 | 220 |
| 12-180G | 12 | 180 | 201 | 2760 | 3.7 | F-M8 | 63.0 | 139 | 20.5 | 520 | 9.37 | 238 | 8.86 | 220 |
| 12-200G | 12 | 200 | 224 | 3020 | 3.5 | F-M8 | 66.0 | 145 | 20.5 | 520 | 9.37 | 238 | 8.86 | 220 |
| 12-220G | 12 | 220 | 246 | 3150 | 3.4 | F-M8 | 68.0 | 150 | 20.5 | 520 | 9.37 | 238 | 8.86 | 220 |
| 12-250G | 12 | 250 | 280 | 4460 | 3.2 | F-M8 | 78.0 | 173 | 20.5 | 520 | 10.6 | 269 | 8.86 | 225 |
| 12-300G | 12 | 300 | 336 | 4860 | 3.1 | F-M8 | 86.0 | 189 | 20.5 | 520 | 10.6 | 269 | 8.86 | 225 |
| 6-180G | 6 | 180 | 201 | 2880 | 3.9 | F-M8 | 32.0 | 70.4 | 12.7 | 322 | 7.01 | 178 | 9.06 | 230 |
| 6-190G | 6 | 190 | 212 | 3150 | 3.5 | F-M8 | 33.5 | 73.7 | 9.57 | 243 | 7.40 | 188 | 10.8 | 275 |
| 6-200G | 6 | 200 | 224 | 3200 | 3.1 | F-M8 | 35.5 | 78.1 | 9.57 | 243 | 7.40 | 188 | 10.8 | 275 |
| 6-270G | 6 | 270 | 302 | 4455 | 2.8 | F-M8 | 49.5 | 109 | 11.6 | 295 | 7.01 | 178 | 13.6 | 345 |
| 6-300G | 6 | 300 | 336 | 4800 | 2.6 | F-M8 | 52.5 | 116 | 11.6 | 295 | 7.01 | 178 | 13.6 | 345 |

Actual Battery Dimensions may vary by +1%



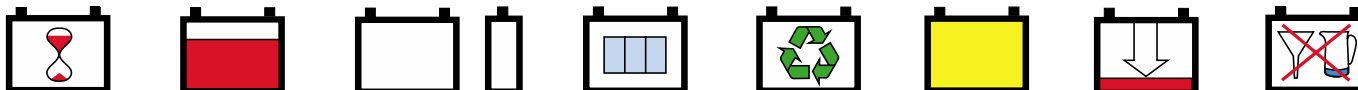
Terminal and Torque



Deep Cycle Gel Range Discharge Ampere Hours Data @ 20°C (68°F)

| Battery Model | End VPC | Discharge Data Ampere Hours @ 20°C | | | | | | | | | | | | | |
|---------------|---------|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | Discharge Time In Hours | | | | | | | | | | | | | |
| | | 1 | 1.5 | 2 | 3 | 4 | 5 | 8 | 10 | 12 | 20 | 24 | 48 | 72 | 100 |
| 12-30G | 1.85 | 14.9 | 16.2 | 18.1 | 19.6 | 20.6 | 21.4 | 23.8 | 24.5 | 25.1 | 27.6 | 28.2 | 29.5 | 30.5 | 31.6 |
| | 1.80 | 15.7 | 17.1 | 19.3 | 20.8 | 21.8 | 22.7 | 25.3 | 26.3 | 26.7 | 29.2 | 29.5 | 30.5 | 31.5 | 32.4 |
| | 1.75 | 16.2 | 17.5 | 19.7 | 21.4 | 22.4 | 23.3 | 25.9 | 27.0 | 27.5 | 30.0 | 30.5 | 31.4 | 32.3 | 33.0 |
| 12-38G | 1.85 | 18.9 | 20.5 | 22.9 | 24.9 | 26.2 | 27.0 | 30.2 | 31.1 | 31.8 | 35.0 | 35.7 | 37.3 | 38.5 | 40.1 |
| | 1.80 | 19.9 | 21.6 | 24.4 | 26.4 | 27.7 | 28.8 | 32.0 | 33.3 | 33.9 | 36.9 | 37.5 | 38.7 | 39.8 | 41.0 |
| | 1.75 | 20.5 | 22.3 | 25.0 | 27.0 | 28.3 | 29.5 | 32.8 | 34.2 | 34.9 | 38.0 | 38.5 | 39.7 | 40.9 | 41.8 |
| 12-50G | 1.85 | 25.0 | 26.9 | 30.2 | 32.7 | 34.4 | 35.6 | 39.7 | 40.9 | 41.7 | 45.5 | 46.9 | 49.1 | 50.8 | 52.5 |
| | 1.80 | 26.3 | 28.5 | 32.1 | 34.7 | 36.5 | 37.7 | 42.1 | 43.8 | 44.6 | 48.6 | 49.3 | 50.9 | 52.5 | 54.3 |
| | 1.75 | 26.9 | 29.3 | 32.8 | 35.5 | 37.4 | 38.7 | 43.2 | 45.0 | 45.9 | 50.0 | 50.7 | 52.2 | 53.8 | 55.0 |
| 12-60G | 1.85 | 29.9 | 32.3 | 36.2 | 39.3 | 41.2 | 42.8 | 47.7 | 49.1 | 50.1 | 54.7 | 56.3 | 58.9 | 61.0 | 63.1 |
| | 1.80 | 31.5 | 34.3 | 38.5 | 41.7 | 43.7 | 45.3 | 50.5 | 52.6 | 53.6 | 58.4 | 59.1 | 61.1 | 63.1 | 65.1 |
| | 1.75 | 32.3 | 35.1 | 39.4 | 42.7 | 44.8 | 46.5 | 51.8 | 54.0 | 55.1 | 60.0 | 60.9 | 62.6 | 64.6 | 66.0 |
| 12-70G | 1.85 | 34.9 | 37.7 | 42.3 | 45.5 | 48.2 | 49.8 | 55.6 | 57.2 | 58.5 | 63.7 | 65.7 | 68.7 | 71.2 | 73.6 |
| | 1.80 | 36.7 | 40.0 | 44.9 | 48.6 | 51.0 | 52.9 | 59.0 | 61.4 | 62.4 | 68.0 | 69.0 | 71.3 | 73.6 | 75.9 |
| | 1.75 | 37.6 | 41.0 | 46.0 | 49.8 | 52.3 | 54.2 | 60.5 | 63.0 | 64.3 | 70.0 | 71.1 | 73.2 | 75.3 | 78.0 |
| 12-80G | 1.85 | 39.8 | 43.1 | 48.3 | 52.3 | 55.0 | 56.9 | 63.6 | 65.5 | 66.9 | 72.8 | 75.1 | 78.5 | 81.3 | 84.3 |
| | 1.80 | 41.9 | 45.6 | 51.3 | 55.5 | 58.4 | 60.4 | 67.4 | 70.2 | 71.5 | 77.7 | 78.9 | 81.4 | 84.1 | 86.8 |
| | 1.75 | 43.0 | 46.8 | 52.5 | 56.9 | 59.8 | 61.9 | 69.1 | 72.0 | 73.4 | 80.0 | 81.2 | 83.5 | 86.1 | 89.0 |
| 12-90G | 1.85 | 44.8 | 48.4 | 54.4 | 58.9 | 61.9 | 64.1 | 71.5 | 73.7 | 75.2 | 81.9 | 84.5 | 88.3 | 91.5 | 97.0 |
| | 1.80 | 47.2 | 51.4 | 57.7 | 62.5 | 65.6 | 68.0 | 75.8 | 78.9 | 80.4 | 87.5 | 88.7 | 91.6 | 94.6 | 99.0 |
| | 1.75 | 48.4 | 52.7 | 59.1 | 64.0 | 67.2 | 69.7 | 77.8 | 81.0 | 82.6 | 90.0 | 91.4 | 94.0 | 96.8 | 100 |
| 12-100G | 1.85 | 49.9 | 53.8 | 60.4 | 65.4 | 68.7 | 71.2 | 79.5 | 81.9 | 83.5 | 91.0 | 93.9 | 98.1 | 102 | 105 |
| | 1.80 | 52.5 | 57.1 | 64.1 | 69.4 | 72.9 | 75.5 | 84.2 | 87.7 | 89.3 | 97.2 | 98.6 | 102 | 105 | 108 |
| | 1.75 | 53.8 | 58.5 | 65.7 | 71.1 | 74.7 | 77.4 | 86.4 | 90 | 91.8 | 100 | 102 | 104 | 108 | 111 |
| 12-110G | 1.85 | 54.8 | 59.2 | 66.5 | 72.0 | 75.6 | 78.3 | 87.4 | 90.1 | 91.9 | 100 | 103 | 108 | 112 | 116 |
| | 1.80 | 57.7 | 62.8 | 70.5 | 76.3 | 80.2 | 83.1 | 92.7 | 96.4 | 98.3 | 107 | 108 | 112 | 116 | 119 |
| | 1.75 | 59.2 | 64.4 | 72.3 | 78.2 | 82.2 | 85.1 | 95 | 99 | 101 | 110 | 112 | 115 | 118 | 123 |
| 12-120G | 1.85 | 59.8 | 64.6 | 72.5 | 78.5 | 82.5 | 85.4 | 95.3 | 98.3 | 100 | 109 | 112 | 118 | 122 | 127 |
| | 1.80 | 62.9 | 68.5 | 76.9 | 83.2 | 87.5 | 90.7 | 101 | 105 | 107 | 117 | 118 | 122 | 127 | 130 |
| | 1.75 | 64.6 | 70.3 | 78.9 | 85.3 | 89.7 | 92.8 | 104 | 108 | 110 | 120 | 122 | 125 | 129 | 134 |
| 12-135G | 1.85 | 67.4 | 72.7 | 81.6 | 88.3 | 92.8 | 96.1 | 107 | 111 | 113 | 123 | 127 | 133 | 137 | 142 |
| | 1.80 | 70.9 | 77.1 | 86.5 | 93.7 | 98.4 | 102 | 114 | 118 | 121 | 132 | 133 | 137 | 142 | 146 |
| | 1.75 | 72.6 | 79.0 | 88.7 | 96.0 | 101 | 105 | 117 | 122 | 124 | 135 | 137 | 141 | 145 | 151 |
| 12-150G | 1.85 | 74.8 | 80.7 | 90.7 | 98.1 | 103 | 107 | 119 | 123 | 125 | 137 | 141 | 147 | 152 | 158 |
| | 1.80 | 78.7 | 85.6 | 96.2 | 104 | 109 | 113 | 126 | 131 | 134 | 146 | 148 | 153 | 158 | 163 |
| | 1.75 | 80.7 | 87.8 | 98.6 | 107 | 112 | 116 | 130 | 135 | 138 | 150 | 152 | 157 | 161 | 168 |
| 12-160G | 1.85 | 79.7 | 86.1 | 96.7 | 105 | 110 | 114 | 127 | 131 | 133 | 146 | 150 | 157 | 162 | 169 |
| | 1.80 | 83.9 | 91.3 | 103 | 111 | 116 | 121 | 134 | 140 | 143 | 156 | 158 | 163 | 169 | 174 |
| | 1.75 | 86.1 | 93.7 | 105 | 114 | 119 | 124 | 139 | 144 | 147 | 160 | 162 | 167 | 172 | 179 |

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



Deep Cycle Gel Range Discharge Ampere Hours Data @ 20°C (68°F)

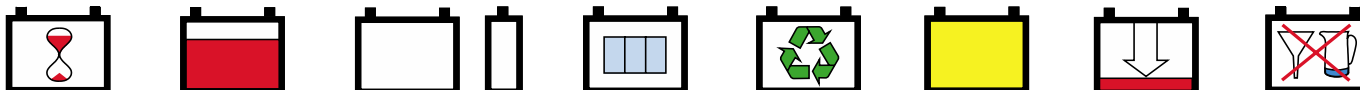
| Battery Model | End VPC | Discharge Data Ampere Hours @ 20°C | | | | | | | | | | | | | |
|---------------|---------|------------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | Discharge Time In Hours | | | | | | | | | | | | | |
| | | 1 | 1.5 | 2 | 3 | 4 | 5 | 8 | 10 | 12 | 20 | 24 | 48 | 72 | 100 |
| 12-180G | 1.85 | 89.8 | 97.2 | 109 | 118 | 123 | 128 | 143 | 148 | 150 | 164 | 169 | 176 | 183 | 189 |
| | 1.80 | 94.5 | 103 | 115 | 125 | 131 | 136 | 151 | 158 | 161 | 175 | 177 | 184 | 189 | 195 |
| | 1.75 | 97.2 | 105 | 118 | 128 | 134 | 140 | 156 | 162 | 166 | 180 | 183 | 188 | 194 | 201 |
| 12-200G | 1.85 | 100 | 108 | 121 | 131 | 137 | 142 | 159 | 164 | 167 | 182 | 188 | 196 | 203 | 210 |
| | 1.80 | 105 | 114 | 128 | 139 | 146 | 151 | 168 | 175 | 179 | 194 | 197 | 204 | 210 | 217 |
| | 1.75 | 108 | 117 | 131 | 142 | 149 | 155 | 173 | 180 | 184 | 200 | 203 | 209 | 215 | 224 |
| 12-220G | 1.85 | 110 | 119 | 133 | 144 | 151 | 156 | 174 | 180 | 184 | 200 | 207 | 216 | 224 | 231 |
| | 1.80 | 116 | 125 | 141 | 153 | 160 | 166 | 185 | 193 | 196 | 214 | 217 | 224 | 231 | 239 |
| | 1.75 | 119 | 129 | 144 | 156 | 164 | 171 | 190 | 198 | 202 | 220 | 223 | 229 | 237 | 246 |
| 12-250G | 1.85 | 124 | 135 | 151 | 164 | 171 | 178 | 198 | 205 | 209 | 227 | 235 | 246 | 254 | 263 |
| | 1.80 | 131 | 142 | 161 | 173 | 182 | 189 | 210 | 219 | 223 | 244 | 247 | 254 | 263 | 272 |
| | 1.75 | 135 | 147 | 164 | 178 | 186 | 194 | 216 | 225 | 230 | 250 | 253 | 261 | 269 | 280 |
| 12-300G | 1.85 | 149 | 162 | 181 | 197 | 205 | 214 | 238 | 246 | 251 | 272 | 282 | 295 | 305 | 316 |
| | 1.80 | 157 | 170 | 193 | 208 | 218 | 227 | 252 | 263 | 268 | 293 | 296 | 305 | 316 | 326 |
| | 1.75 | 162 | 176 | 197 | 214 | 223 | 233 | 259 | 270 | 276 | 300 | 304 | 313 | 323 | 336 |
| 6-180G | 1.85 | 90.0 | 97.6 | 109 | 118 | 123 | 128 | 143 | 148 | 150 | 164 | 169 | 176 | 183 | 189 |
| | 1.80 | 94.7 | 103 | 115 | 125 | 131 | 136 | 151 | 158 | 161 | 175 | 177 | 184 | 189 | 195 |
| | 1.75 | 97.6 | 105 | 118 | 128 | 134 | 140 | 156 | 162 | 166 | 180 | 183 | 188 | 194 | 201 |
| 6-190G | 1.85 | 95.0 | 103 | 115 | 125 | 130 | 135 | 151 | 156 | 158 | 173 | 178 | 186 | 193 | 200 |
| | 1.80 | 100 | 109 | 121 | 132 | 138 | 144 | 159 | 167 | 170 | 185 | 187 | 194 | 200 | 206 |
| | 1.75 | 103 | 111 | 125 | 135 | 141 | 148 | 165 | 171 | 175 | 190 | 193 | 198 | 205 | 212 |
| 6-200G | 1.85 | 100 | 108 | 121 | 131 | 137 | 142 | 159 | 164 | 167 | 182 | 188 | 196 | 203 | 210 |
| | 1.80 | 105 | 114 | 128 | 139 | 146 | 151 | 168 | 175 | 179 | 194 | 197 | 204 | 210 | 217 |
| | 1.75 | 108 | 117 | 131 | 142 | 149 | 155 | 173 | 180 | 184 | 200 | 203 | 209 | 215 | 224 |
| 6-270G | 1.85 | 135 | 146 | 163 | 177 | 185 | 192 | 215 | 221 | 225 | 246 | 254 | 265 | 274 | 284 |
| | 1.80 | 142 | 154 | 173 | 188 | 197 | 204 | 227 | 236 | 242 | 262 | 266 | 275 | 284 | 293 |
| | 1.75 | 146 | 158 | 177 | 192 | 201 | 209 | 234 | 243 | 248 | 270 | 274 | 282 | 290 | 302 |
| 6-300G | 1.85 | 150 | 162 | 182 | 197 | 206 | 213 | 239 | 246 | 251 | 273 | 282 | 294 | 305 | 315 |
| | 1.80 | 158 | 171 | 192 | 209 | 219 | 227 | 252 | 263 | 269 | 291 | 296 | 306 | 315 | 326 |
| | 1.75 | 162 | 176 | 197 | 213 | 224 | 233 | 260 | 270 | 276 | 300 | 305 | 314 | 323 | 336 |

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

Deep Cycle Gel Range Discharge Amps Data @ 20°C (68°F)

| Battery Model | End VPC | Discharge Data Amps @ 20°C | | | | | | | | | | | | | |
|---------------|---------|----------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|------|
| | | Discharge Time In Hours | | | | | | | | | | | | | |
| | | 1 | 1.5 | 2 | 3 | 4 | 5 | 8 | 10 | 12 | 20 | 24 | 48 | 72 | 100 |
| 12-30G | 1.85 | 14.9 | 10.7 | 9.09 | 6.55 | 5.15 | 4.27 | 2.98 | 2.45 | 2.09 | 1.37 | 1.17 | 0.62 | 0.43 | 0.31 |
| | 1.80 | 15.7 | 11.4 | 9.55 | 6.94 | 5.47 | 4.53 | 3.16 | 2.63 | 2.23 | 1.46 | 1.24 | 0.64 | 0.44 | 0.33 |
| | 1.75 | 16.2 | 11.6 | 9.91 | 7.11 | 5.60 | 4.65 | 3.24 | 2.70 | 2.30 | 1.50 | 1.27 | 0.65 | 0.45 | 0.33 |
| 12-38G | 1.85 | 18.9 | 13.6 | 11.5 | 8.30 | 6.52 | 5.41 | 3.77 | 3.10 | 2.65 | 1.74 | 1.48 | 0.79 | 0.54 | 0.39 |
| | 1.80 | 19.9 | 14.4 | 12.1 | 8.79 | 6.93 | 5.74 | 4.00 | 3.33 | 2.82 | 1.85 | 1.57 | 0.81 | 0.56 | 0.42 |
| | 1.75 | 20.5 | 14.7 | 12.6 | 9.01 | 7.09 | 5.89 | 4.10 | 3.42 | 2.91 | 1.90 | 1.61 | 0.82 | 0.57 | 0.42 |
| 12-50G | 1.85 | 24.7 | 17.9 | 15.1 | 10.9 | 8.59 | 7.12 | 4.96 | 4.09 | 3.48 | 2.27 | 1.95 | 1.02 | 0.71 | 0.53 |
| | 1.80 | 26.3 | 19.0 | 16.0 | 11.5 | 9.09 | 7.55 | 5.26 | 4.38 | 3.72 | 2.43 | 2.05 | 1.06 | 0.73 | 0.55 |
| | 1.75 | 26.9 | 19.5 | 16.5 | 11.8 | 9.36 | 7.74 | 5.40 | 4.50 | 3.83 | 2.50 | 2.12 | 1.09 | 0.75 | 0.55 |
| 12-60G | 1.85 | 29.6 | 21.5 | 18.1 | 13.1 | 10.30 | 8.54 | 5.96 | 4.91 | 4.18 | 2.73 | 2.35 | 1.22 | 0.85 | 0.63 |
| | 1.80 | 31.5 | 22.8 | 19.2 | 13.9 | 10.90 | 9.07 | 6.32 | 5.26 | 4.46 | 2.91 | 2.47 | 1.28 | 0.87 | 0.65 |
| | 1.75 | 32.3 | 23.5 | 19.7 | 14.2 | 11.2 | 9.28 | 6.48 | 5.40 | 4.59 | 3.00 | 2.54 | 1.31 | 0.89 | 0.66 |
| 12-70G | 1.85 | 34.5 | 25.1 | 21.2 | 15.3 | 11.9 | 10.0 | 6.96 | 5.72 | 4.87 | 3.18 | 2.73 | 1.43 | 0.99 | 0.74 |
| | 1.80 | 36.7 | 26.6 | 22.4 | 16.1 | 12.9 | 10.5 | 7.37 | 6.14 | 5.21 | 3.40 | 2.87 | 1.48 | 1.02 | 0.77 |
| | 1.75 | 37.6 | 27.3 | 23.1 | 16.6 | 13.2 | 10.8 | 7.56 | 6.30 | 5.37 | 3.50 | 2.96 | 1.52 | 1.05 | 0.78 |
| 12-80G | 1.85 | 39.4 | 28.7 | 24.2 | 17.4 | 13.7 | 11.4 | 7.90 | 6.60 | 5.60 | 3.60 | 3.10 | 1.60 | 1.10 | 0.80 |
| | 1.80 | 41.9 | 30.5 | 25.6 | 18.5 | 14.6 | 12.1 | 8.40 | 7.00 | 6.00 | 3.90 | 3.30 | 1.70 | 1.20 | 0.86 |
| | 1.75 | 43.0 | 31.2 | 26.3 | 19.0 | 15.0 | 12.4 | 8.60 | 7.20 | 6.10 | 4.00 | 3.40 | 1.70 | 1.20 | 0.89 |
| 12-90G | 1.85 | 44.8 | 32.3 | 27.2 | 19.6 | 15.5 | 12.8 | 8.94 | 7.37 | 6.27 | 4.10 | 3.52 | 1.84 | 1.27 | 0.97 |
| | 1.80 | 47.2 | 34.3 | 28.9 | 20.8 | 16.4 | 13.6 | 9.48 | 7.89 | 6.70 | 4.37 | 3.70 | 1.91 | 1.31 | 0.99 |
| | 1.75 | 48.4 | 35.1 | 29.6 | 21.3 | 16.8 | 13.9 | 9.72 | 8.10 | 6.89 | 4.50 | 3.81 | 1.96 | 1.34 | 1.00 |
| 12-100G | 1.85 | 49.9 | 35.9 | 30.2 | 21.8 | 17.2 | 14.2 | 9.94 | 8.19 | 6.96 | 4.55 | 3.91 | 2.04 | 1.41 | 1.05 |
| | 1.80 | 52.5 | 38.1 | 32.1 | 23.1 | 18.2 | 15.1 | 10.5 | 8.77 | 7.44 | 4.86 | 4.11 | 2.12 | 1.46 | 1.08 |
| | 1.75 | 53.8 | 39.0 | 32.9 | 23.7 | 18.7 | 15.5 | 10.8 | 9.00 | 7.65 | 5.00 | 4.23 | 2.18 | 1.49 | 1.11 |
| 12-110G | 1.85 | 54.8 | 39.5 | 33.2 | 24.0 | 18.9 | 15.7 | 10.9 | 9.01 | 7.66 | 5.01 | 4.30 | 2.25 | 1.55 | 1.16 |
| | 1.80 | 57.7 | 41.9 | 35.3 | 25.4 | 20.0 | 16.6 | 11.6 | 9.64 | 8.19 | 5.35 | 4.52 | 2.33 | 1.61 | 1.19 |
| | 1.75 | 59.2 | 42.9 | 36.1 | 26.1 | 20.5 | 17.0 | 11.9 | 9.90 | 8.42 | 5.50 | 4.65 | 2.39 | 1.64 | 1.23 |
| 12-120G | 1.85 | 59.2 | 43.1 | 36.3 | 26.2 | 20.6 | 17.1 | 11.9 | 9.83 | 9.1 | 5.46 | 4.69 | 2.45 | 1.69 | 1.26 |
| | 1.80 | 63.0 | 45.7 | 38.5 | 27.8 | 21.9 | 18.1 | 12.6 | 10.5 | 9.73 | 5.83 | 4.93 | 2.54 | 1.75 | 1.30 |
| | 1.75 | 64.5 | 46.8 | 39.4 | 28.4 | 22.4 | 18.6 | 13.0 | 10.8 | 10.0 | 6.00 | 5.08 | 2.61 | 1.79 | 1.34 |
| 12-135G | 1.85 | 67.4 | 48.5 | 40.8 | 29.5 | 23.2 | 19.2 | 13.4 | 11.1 | 10.2 | 6.14 | 5.28 | 2.76 | 1.9 | 1.42 |
| | 1.80 | 70.9 | 51.4 | 43.3 | 31.3 | 24.6 | 20.4 | 14.2 | 11.8 | 10.9 | 6.56 | 5.55 | 2.86 | 1.97 | 1.46 |
| | 1.75 | 72.6 | 52.7 | 44.3 | 32.0 | 25.2 | 20.9 | 14.6 | 12.2 | 11.3 | 6.75 | 5.72 | 2.94 | 2.01 | 1.51 |
| 12-150G | 1.85 | 74.0 | 53.8 | 45.3 | 32.7 | 25.8 | 21.4 | 14.9 | 12.3 | 10.4 | 6.83 | 5.87 | 3.07 | 2.12 | 1.58 |
| | 1.80 | 78.7 | 57.1 | 48.1 | 34.7 | 27.3 | 22.7 | 15.8 | 13.1 | 11.2 | 7.29 | 6.16 | 3.18 | 2.19 | 1.63 |
| | 1.75 | 80.7 | 58.5 | 49.3 | 35.6 | 28.0 | 23.2 | 16.2 | 13.5 | 11.5 | 7.5 | 6.34 | 3.26 | 2.24 | 1.68 |
| 12-160G | 1.85 | 79.7 | 57.4 | 48.3 | 34.9 | 27.5 | 22.8 | 15.9 | 13.1 | 11.1 | 7.29 | 6.26 | 3.27 | 2.26 | 1.69 |
| | 1.80 | 83.9 | 60.9 | 51.3 | 37.0 | 29.1 | 24.2 | 16.9 | 14.0 | 11.9 | 7.78 | 6.57 | 3.39 | 2.34 | 1.74 |
| | 1.75 | 86.1 | 62.4 | 52.6 | 38.0 | 29.9 | 24.7 | 17.3 | 14.4 | 12.3 | 8.00 | 6.76 | 3.48 | 2.39 | 1.79 |

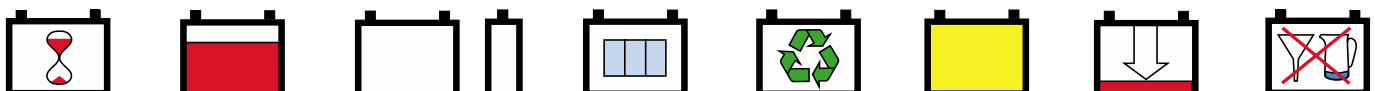
Actual Battery Discharge Data may be +/-5% of figures shown above.



Deep Cycle Gel Range Discharge Amps Data @ 20°C (68°F)

| Battery Model | End VPC | Discharge Data Amps @ 20°C | | | | | | | | | | | | | |
|---------------|---------|----------------------------|------|------|------|------|------|------|------|------|------|-------|------|------|------|
| | | Discharge Time In Hours | | | | | | | | | | | | | |
| | | 1 | 1.5 | 2 | 3 | 4 | 5 | 8 | 10 | 12 | 20 | 24 | 48 | 72 | 100 |
| 12-180G | 1.85 | 89.7 | 64.6 | 54.3 | 39.3 | 30.9 | 25.7 | 17.9 | 14.7 | 12.5 | 8.20 | 7.04 | 3.68 | 2.54 | 1.90 |
| | 1.80 | 94.4 | 68.5 | 57.7 | 41.6 | 32.7 | 27.2 | 19.0 | 15.8 | 13.4 | 8.75 | 7.39 | 3.81 | 2.63 | 1.96 |
| | 1.75 | 96.9 | 70.2 | 59.2 | 42.8 | 33.6 | 27.8 | 19.5 | 16.2 | 13.8 | 9.00 | 7.61 | 3.92 | 2.69 | 2.01 |
| 12-200G | 1.85 | 98.7 | 71.8 | 60.4 | 43.6 | 34.4 | 28.5 | 19.9 | 16.4 | 13.9 | 9.10 | 7.82 | 4.09 | 2.82 | 2.10 |
| | 1.80 | 105 | 76.1 | 64.1 | 46.3 | 36.5 | 30.2 | 21.1 | 17.5 | 14.9 | 9.72 | 8.21 | 4.24 | 2.92 | 2.17 |
| | 1.75 | 108 | 78.0 | 65.7 | 47.4 | 37.4 | 31.0 | 21.6 | 18.0 | 15.3 | 10.0 | 8.46 | 4.35 | 2.99 | 2.24 |
| 12-220G | 1.85 | 109 | 78.9 | 66.5 | 48.0 | 37.8 | 31.3 | 21.9 | 18.0 | 15.4 | 10.1 | 8.61 | 4.49 | 3.11 | 2.31 |
| | 1.80 | 116 | 83.7 | 70.6 | 50.9 | 40.1 | 33.3 | 23.1 | 19.3 | 16.4 | 10.7 | 9.04 | 4.67 | 3.21 | 2.39 |
| | 1.75 | 119 | 85.8 | 72.3 | 52.2 | 41.1 | 34.0 | 23.8 | 19.8 | 16.8 | 11.0 | 9.30 | 4.79 | 3.29 | 2.46 |
| 12-250G | 1.85 | 124 | 89.7 | 75.5 | 54.5 | 43.0 | 35.6 | 24.9 | 20.5 | 17.5 | 11.4 | 9.80 | 5.11 | 3.53 | 2.63 |
| | 1.80 | 131 | 95.2 | 80.2 | 57.9 | 45.6 | 37.8 | 26.3 | 21.9 | 18.6 | 12.2 | 10.3 | 5.3 | 3.65 | 2.72 |
| | 1.75 | 135 | 97.5 | 82.1 | 59.3 | 46.7 | 38.7 | 27.0 | 22.5 | 19.1 | 12.5 | 10.6 | 5.44 | 3.74 | 2.80 |
| 12-300G | 1.85 | 149 | 108 | 90.6 | 65.4 | 51.6 | 42.7 | 29.9 | 24.6 | 21.0 | 13.7 | 11.8 | 6.13 | 4.24 | 3.16 |
| | 1.80 | 157 | 114 | 96.2 | 69.5 | 54.7 | 45.4 | 31.6 | 26.3 | 22.3 | 14.6 | 12.4 | 6.36 | 4.38 | 3.26 |
| | 1.75 | 162 | 117 | 98.5 | 71.2 | 56.0 | 46.4 | 32.4 | 27.0 | 22.9 | 15.0 | 12.7 | 6.53 | 4.49 | 3.36 |
| 6-180G | 1.85 | 88.9 | 64.6 | 54.4 | 39.2 | 31.0 | 25.7 | 17.9 | 14.8 | 12.5 | 8.19 | 7.04 | 3.69 | 2.54 | 1.89 |
| | 1.80 | 94.5 | 68.5 | 57.7 | 41.7 | 32.9 | 27.2 | 18.9 | 15.7 | 13.5 | 8.74 | 7.39 | 3.82 | 2.62 | 1.95 |
| | 1.75 | 97.6 | 70.2 | 59.1 | 42.6 | 33.6 | 27.9 | 19.4 | 16.2 | 13.7 | 9.00 | 7.62 | 3.91 | 2.69 | 2.01 |
| 6-190G | 1.85 | 94.8 | 68.2 | 57.4 | 41.4 | 32.7 | 27.1 | 18.9 | 15.6 | 13.2 | 8.65 | 7.43 | 3.89 | 2.68 | 2.00 |
| | 1.80 | 100 | 72.3 | 60.9 | 44.0 | 34.7 | 28.7 | 20.0 | 16.6 | 14.2 | 9.23 | 7.80 | 4.03 | 2.77 | 2.06 |
| | 1.75 | 103 | 74.1 | 62.4 | 45.0 | 35.5 | 29.5 | 20.5 | 17.1 | 14.5 | 9.50 | 8.04 | 4.13 | 2.84 | 2.12 |
| 6-200G | 1.85 | 100 | 71.8 | 60.4 | 43.6 | 34.4 | 28.5 | 19.9 | 16.4 | 13.9 | 9.10 | 7.82 | 4.09 | 2.82 | 2.1 |
| | 1.80 | 105 | 76.1 | 64.1 | 46.3 | 36.5 | 30.2 | 21.1 | 17.5 | 14.9 | 9.72 | 8.21 | 4.24 | 2.92 | 2.17 |
| | 1.75 | 108 | 78.0 | 65.7 | 47.4 | 37.4 | 31.0 | 21.6 | 18.0 | 15.3 | 10.0 | 8.46 | 4.35 | 2.99 | 2.24 |
| 6-270G | 1.85 | 135 | 96.9 | 81.5 | 58.9 | 46.4 | 38.5 | 26.9 | 22.1 | 18.8 | 12.3 | 10.56 | 5.52 | 3.81 | 2.84 |
| | 1.80 | 142 | 103 | 86.5 | 62.5 | 49.3 | 40.8 | 28.5 | 23.6 | 20.1 | 13.1 | 11.08 | 5.72 | 3.94 | 2.93 |
| | 1.75 | 146 | 105 | 88.7 | 64.0 | 50.5 | 41.9 | 29.2 | 24.3 | 20.7 | 13.5 | 11.42 | 5.87 | 4.04 | 3.02 |
| 6-300G | 1.85 | 150 | 108 | 90.6 | 65.4 | 51.6 | 42.8 | 29.9 | 24.6 | 20.9 | 13.7 | 11.7 | 6.14 | 4.23 | 3.15 |
| | 1.80 | 158 | 114 | 96.2 | 69.5 | 54.8 | 45.3 | 31.7 | 26.3 | 22.4 | 14.6 | 12.3 | 6.36 | 4.38 | 3.26 |
| | 1.75 | 162 | 117 | 98.6 | 71.1 | 56.1 | 46.5 | 32.4 | 27.0 | 23.0 | 15.0 | 12.7 | 6.53 | 4.49 | 3.36 |

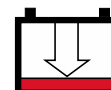
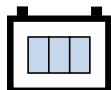
Actual Battery Discharge Data may be +/-5% of figures shown above.



Deep Cycle Gel Range Discharge Watts Per Cell @ 20°C (68°F)

| Battery Model | End VPC | Watts Per Cell @ 20°C | | | | | | | | | | |
|---------------|---------|-------------------------|------|------|------|------|------|------|-------|------|------|------|
| | | Discharge Time In Hours | | | | | | | | | | |
| | | 1 | 1.5 | 2 | 3 | 4 | 5 | 8 | 10 | 12 | 20 | 24 |
| 12-30G | 1.85 | 28.4 | 19.9 | 17.5 | 12.7 | 10.2 | 8.42 | 5.93 | 4.90 | 4.17 | 2.76 | 2.35 |
| | 1.80 | 30.2 | 21.8 | 18.5 | 13.5 | 10.6 | 8.87 | 6.25 | 5.18 | 4.45 | 2.91 | 2.47 |
| | 1.75 | 30.9 | 22.2 | 18.9 | 13.7 | 10.8 | 9.02 | 6.35 | 5.29 | 4.52 | 2.97 | 2.52 |
| 12-38G | 1.85 | 36.3 | 25.2 | 22.2 | 16.1 | 12.9 | 10.7 | 7.51 | 6.21 | 5.28 | 3.50 | 2.98 |
| | 1.80 | 38.3 | 27.6 | 23.4 | 17.1 | 13.4 | 11.2 | 7.92 | 6.56 | 5.64 | 3.69 | 3.13 |
| | 1.75 | 39.1 | 28.1 | 23.9 | 17.4 | 13.7 | 11.4 | 8.04 | 6.70 | 5.73 | 3.76 | 3.19 |
| 12-50G | 1.85 | 47.9 | 34.5 | 29.2 | 21.3 | 16.8 | 14.0 | 9.91 | 8.16 | 6.95 | 4.56 | 3.93 |
| | 1.80 | 50.4 | 36.4 | 30.8 | 22.4 | 17.7 | 14.8 | 10.4 | 8.64 | 7.40 | 4.85 | 4.11 |
| | 1.75 | 51.6 | 37.1 | 31.5 | 22.9 | 18.1 | 15.1 | 10.5 | 8.82 | 7.54 | 4.95 | 4.19 |
| 12-60G | 1.85 | 57.4 | 41.5 | 35.0 | 25.5 | 20.2 | 16.8 | 11.9 | 9.80 | 8.35 | 5.48 | 4.71 |
| | 1.80 | 60.4 | 43.6 | 37.0 | 26.8 | 21.3 | 17.8 | 12.4 | 10.40 | 8.88 | 5.81 | 4.93 |
| | 1.75 | 62.0 | 44.5 | 37.9 | 27.5 | 21.7 | 18.1 | 12.7 | 10.6 | 9.04 | 5.93 | 5.03 |
| 12-70G | 1.85 | 67.0 | 48.3 | 40.9 | 29.7 | 23.6 | 19.6 | 13.8 | 11.4 | 9.71 | 6.38 | 5.5 |
| | 1.80 | 70.5 | 50.9 | 43.1 | 31.4 | 24.9 | 20.7 | 14.7 | 12.0 | 10.4 | 6.79 | 5.76 |
| | 1.75 | 72.2 | 51.9 | 44.2 | 31.9 | 25.4 | 21.1 | 14.8 | 12.2 | 10.5 | 6.93 | 5.86 |
| 12-80G | 1.85 | 76.6 | 55.2 | 46.8 | 33.9 | 27.0 | 22.5 | 15.8 | 13.0 | 11.2 | 7.29 | 6.29 |
| | 1.80 | 80.6 | 58.2 | 49.2 | 35.8 | 28.4 | 23.7 | 16.6 | 13.8 | 11.8 | 7.76 | 6.58 |
| | 1.75 | 82.6 | 59.3 | 50.5 | 36.6 | 29.0 | 24.1 | 16.9 | 14.2 | 12.1 | 7.92 | 6.70 |
| 12-90G | 1.85 | 85.3 | 62.1 | 52.6 | 38.2 | 30.3 | 25.3 | 17.8 | 14.7 | 12.5 | 8.21 | 7.24 |
| | 1.80 | 90.7 | 65.4 | 55.4 | 40.3 | 32.0 | 26.6 | 18.7 | 15.5 | 13.3 | 8.72 | 7.57 |
| | 1.75 | 92.9 | 66.7 | 56.8 | 41.2 | 32.6 | 27.2 | 19.1 | 15.9 | 13.6 | 8.9 | 7.77 |
| 12-100G | 1.85 | 96.0 | 69.0 | 58.4 | 42.5 | 33.7 | 28.1 | 19.7 | 16.3 | 13.9 | 9.12 | 7.85 |
| | 1.80 | 101 | 72.7 | 61.6 | 44.8 | 35.5 | 29.6 | 20.8 | 17.3 | 14.8 | 9.69 | 8.21 |
| | 1.75 | 103 | 74.1 | 63.1 | 45.7 | 36.2 | 30.2 | 21.2 | 17.6 | 15.1 | 9.89 | 8.37 |
| 12-110G | 1.85 | 105 | 75.9 | 64.3 | 46.7 | 37.1 | 30.9 | 21.7 | 18.0 | 15.3 | 10.0 | 8.64 |
| | 1.80 | 111 | 79.9 | 67.7 | 49.3 | 39.1 | 32.6 | 22.9 | 19.0 | 16.3 | 10.7 | 9.03 |
| | 1.75 | 114 | 81.5 | 69.4 | 50.3 | 39.9 | 33.2 | 23.3 | 19.4 | 16.6 | 10.9 | 9.21 |
| 12-120G | 1.85 | 115 | 82.8 | 70.1 | 51.0 | 40.5 | 33.7 | 23.7 | 19.6 | 18.2 | 10.9 | 9.42 |
| | 1.80 | 121 | 87.2 | 73.9 | 53.8 | 42.7 | 35.5 | 25.0 | 20.7 | 19.4 | 11.6 | 9.86 |
| | 1.75 | 124 | 88.9 | 75.7 | 54.9 | 43.5 | 36.2 | 25.4 | 21.2 | 19.7 | 11.9 | 10.0 |
| 12-135G | 1.85 | 129 | 93.2 | 78.9 | 57.4 | 45.6 | 37.9 | 26.7 | 22.1 | 20.5 | 12.3 | 10.6 |
| | 1.80 | 136 | 98.1 | 83.1 | 60.5 | 48.0 | 39.9 | 28.1 | 23.3 | 21.8 | 13.1 | 11.1 |
| | 1.75 | 140 | 100 | 85.2 | 61.8 | 48.9 | 40.7 | 28.6 | 23.9 | 22.2 | 13.4 | 11.3 |
| 12-150G | 1.85 | 143 | 104 | 87.6 | 63.7 | 50.6 | 42.1 | 29.6 | 24.5 | 20.9 | 13.7 | 11.8 |
| | 1.80 | 151 | 109 | 92.3 | 67.2 | 53.3 | 44.4 | 31.2 | 25.9 | 22.2 | 14.5 | 12.3 |
| | 1.75 | 155 | 111 | 94.6 | 68.6 | 54.3 | 45.3 | 31.8 | 26.5 | 22.6 | 14.8 | 12.6 |
| 12-160G | 1.85 | 153 | 111 | 93.4 | 67.9 | 54.0 | 44.9 | 31.6 | 26.1 | 22.3 | 14.6 | 12.6 |
| | 1.80 | 161 | 116 | 98.5 | 71.7 | 56.9 | 47.4 | 33.3 | 27.6 | 23.7 | 15.5 | 13.1 |
| | 1.75 | 165 | 118 | 101 | 73.2 | 57.9 | 48.3 | 33.9 | 28.3 | 24.1 | 15.8 | 13.4 |

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



Deep Cycle Gel Range Discharge Watts Per Cell @ 20°C (68°F)

| Battery Model | End VPC | Watts Per Cell @ 20°C | | | | | | | | | | |
|---------------|---------|-------------------------|-----|-----|------|------|------|------|------|------|------|------|
| | | Discharge Time In Hours | | | | | | | | | | |
| | | 1 | 1.5 | 2 | 3 | 4 | 5 | 8 | 10 | 12 | 20 | 24 |
| 12-180G | 1.85 | 172 | 125 | 105 | 76.4 | 60.8 | 50.5 | 35.6 | 29.4 | 25.1 | 16.4 | 14.2 |
| | 1.80 | 181 | 131 | 111 | 80.7 | 64.0 | 53.3 | 37.5 | 31.1 | 26.7 | 17.4 | 14.7 |
| | 1.75 | 186 | 133 | 114 | 82.4 | 65.1 | 54.3 | 38.1 | 31.8 | 27.1 | 17.8 | 15.1 |
| 12-200G | 1.85 | 191 | 138 | 117 | 85.0 | 67.4 | 56.1 | 39.5 | 32.7 | 27.8 | 18.2 | 15.7 |
| | 1.80 | 201 | 145 | 123 | 89.6 | 71.1 | 59.2 | 41.6 | 34.5 | 29.6 | 19.4 | 16.4 |
| | 1.75 | 207 | 148 | 126 | 91.5 | 72.5 | 60.4 | 42.3 | 35.3 | 30.1 | 19.8 | 16.7 |
| 12-220G | 1.85 | 211 | 152 | 132 | 93.9 | 74.2 | 61.7 | 43.4 | 35.9 | 30.6 | 20.1 | 17.3 |
| | 1.80 | 222 | 160 | 136 | 98.6 | 78.2 | 65.1 | 45.8 | 38.0 | 32.5 | 21.3 | 18.1 |
| | 1.75 | 228 | 163 | 138 | 101 | 79.8 | 66.4 | 46.6 | 38.8 | 33.2 | 21.7 | 18.4 |
| 12-250G | 1.85 | 239 | 172 | 150 | 107 | 84.3 | 70.2 | 49.4 | 40.8 | 34.8 | 22.8 | 19.6 |
| | 1.80 | 252 | 182 | 154 | 112 | 88.9 | 74.0 | 52.0 | 43.2 | 37.0 | 24.2 | 20.6 |
| | 1.75 | 259 | 185 | 157 | 114 | 90.6 | 75.4 | 52.9 | 44.1 | 37.7 | 24.7 | 20.9 |
| 12-300G | 1.85 | 287 | 206 | 180 | 128 | 101 | 84.2 | 59.3 | 49.0 | 41.8 | 27.4 | 23.5 |
| | 1.80 | 302 | 218 | 185 | 134 | 107 | 88.8 | 62.4 | 51.8 | 44.4 | 29.0 | 24.7 |
| | 1.75 | 311 | 222 | 188 | 137 | 109 | 90.5 | 63.5 | 52.9 | 45.2 | 29.6 | 25.1 |
| 6-180G | 1.85 | 172 | 124 | 105 | 76.5 | 60.6 | 50.5 | 35.5 | 29.5 | 25.0 | 16.4 | 14.1 |
| | 1.80 | 181 | 131 | 111 | 80.6 | 63.9 | 53.2 | 37.4 | 31.1 | 26.6 | 17.4 | 14.8 |
| | 1.75 | 187 | 134 | 114 | 82.3 | 65.3 | 54.4 | 38.1 | 31.7 | 27.1 | 17.8 | 15.1 |
| 6-190G | 1.85 | 181 | 131 | 111 | 80.8 | 64.0 | 53.3 | 37.5 | 31.1 | 26.4 | 17.3 | 14.9 |
| | 1.80 | 191 | 138 | 117 | 85.1 | 67.5 | 56.2 | 39.5 | 32.8 | 28.1 | 18.4 | 15.6 |
| | 1.75 | 197 | 141 | 120 | 86.9 | 68.9 | 57.4 | 40.2 | 33.5 | 28.6 | 18.8 | 15.9 |
| 6-200G | 1.85 | 191 | 138 | 117 | 85.0 | 67.4 | 56.1 | 39.5 | 32.7 | 27.8 | 18.2 | 15.7 |
| | 1.80 | 201 | 145 | 123 | 89.6 | 71.1 | 59.2 | 41.6 | 34.5 | 29.6 | 19.4 | 16.4 |
| | 1.75 | 207 | 148 | 126 | 91.5 | 72.5 | 60.4 | 42.3 | 35.3 | 30.1 | 19.8 | 16.7 |
| 6-270G | 1.85 | 258 | 186 | 158 | 115 | 91.0 | 75.7 | 53.3 | 44.1 | 37.5 | 24.6 | 21.2 |
| | 1.80 | 271 | 196 | 166 | 121 | 96.0 | 79.9 | 56.2 | 46.6 | 40.0 | 26.2 | 22.1 |
| | 1.75 | 279 | 200 | 170 | 124 | 97.9 | 81.5 | 57.1 | 47.7 | 40.6 | 26.7 | 22.5 |
| 6-300G | 1.85 | 286 | 207 | 176 | 128 | 101 | 84.2 | 59.3 | 49.1 | 41.7 | 27.3 | 23.6 |
| | 1.80 | 302 | 218 | 185 | 134 | 107 | 88.8 | 62.4 | 51.8 | 44.4 | 29.1 | 24.6 |
| | 1.75 | 311 | 222 | 189 | 137 | 109 | 90.6 | 63.5 | 53.0 | 45.2 | 29.7 | 25.1 |

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

Charging Information

AMPERE HOUR CAPACITY IS A NOMINAL RATING.

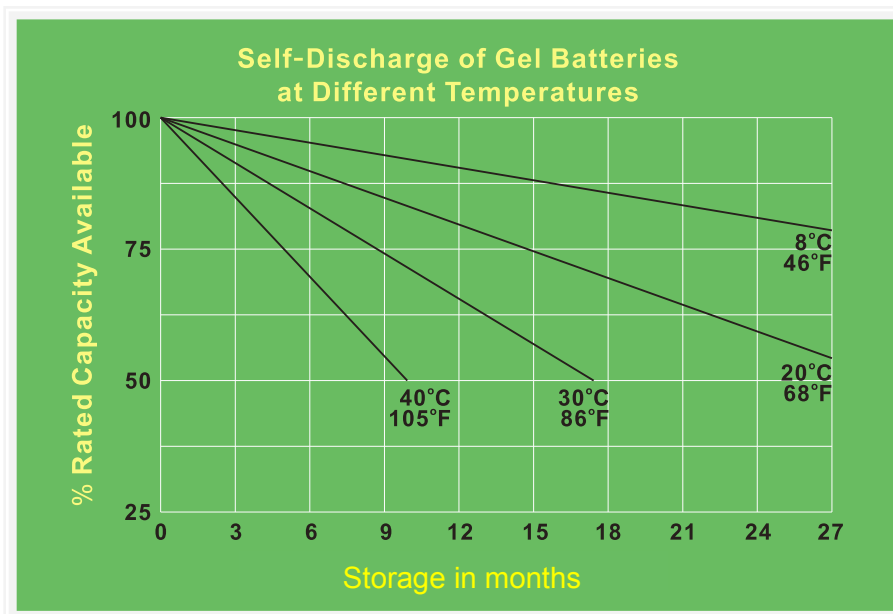
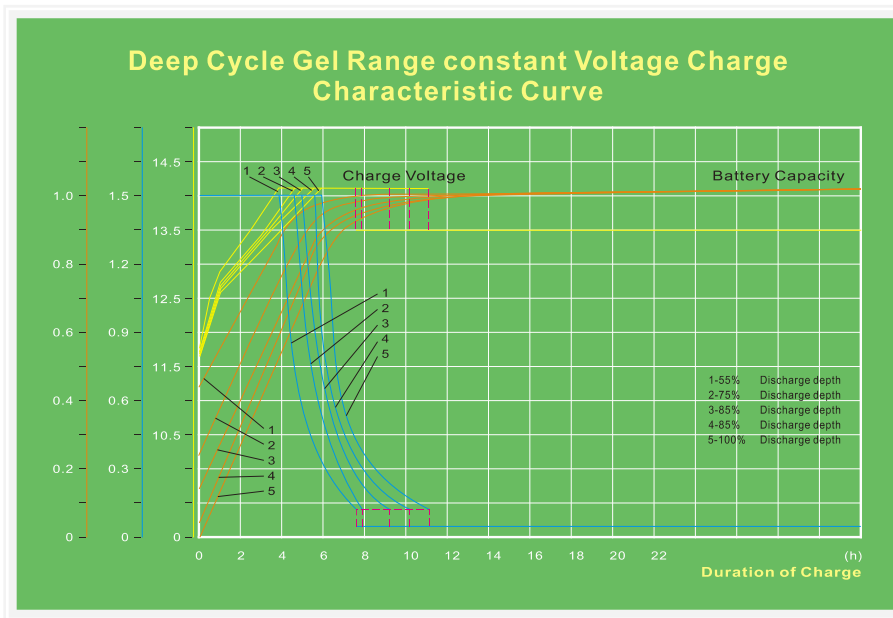
ALL RATINGS ARE AFTER 15 CYCLES AND CONFORM TO B.C.I. SPECIFICATIONS.

BATTERY VOLTAGE: All batteries are 12 Volt excluding MODEL 6-xxG, which is 6 Volt.

IMPORTANT CHARGING INSTRUCTIONS: WARRANTY VOID IF OPENED OR IMPROPERLY CHARGED.

Constant under or overcharging will damage any battery and shorten its life! Battery must be charged using a constant potential voltage regulated charger or voltage regulated solar controller.

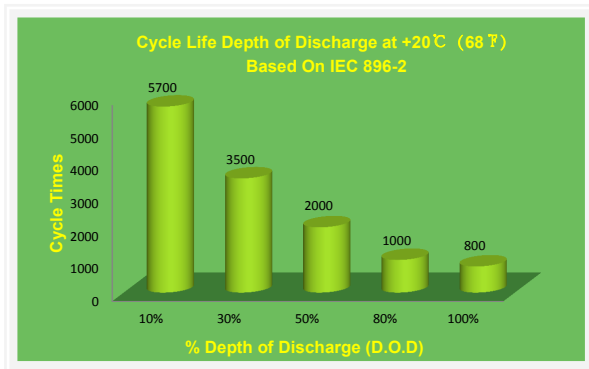
For a 12-volt battery, charge to at least 13.8 volts but no more than 14.1 volts at 68°F (20°C). For a 6-volt battery, charge to at least 6.90 volts but no more than 7.05 volts at 68°F (20°C). Do not charge in an air-tight condition.



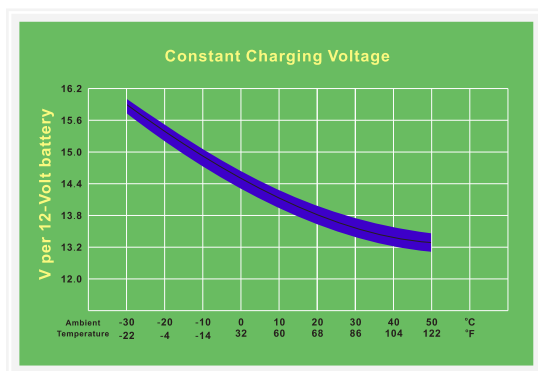
BATTERY CYCLING ABILITY

The EverExceed's Deep Cycle Gel Range VRLA Battery excels in cycling applications.

Deep Cycle Gel Range batteries are capable of 5700+ charge / discharge cycles depending on the depth of discharge.



| TYPICAL CYCLIC PERFORMANCE | |
|----------------------------|--------|
| CAPACITY WITHDRAWN | CYCLES |
| 100% | 800 |
| 80% | 1000 |
| 50% | 2000 |
| 30% | 3500 |
| 10% | 5700 |



CONSTANT CHARGING VOLTAGE:

Shown is the constant charging voltage in relation to the ambient temperature.

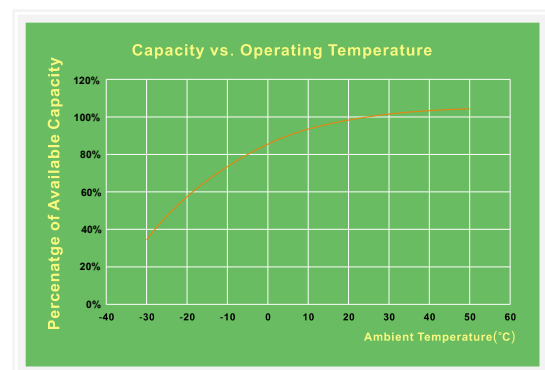
The bandwidth shows a tolerance of $\pm 30\text{mV/cell}$.

This constant voltage is suitable for continuous charging and cyclic operation.

In a parallel standby (floating) condition it always keeps the battery in a fully charged state; in a cyclic condition, it provides for rapid recharging and high cyclic performance.

CAPACITY VS. OPERATING TEMPERATURES:

Above are the changes in capacity for wider ambient temperature range, giving the available capacity, as a percentage of the rated capacity, at different ambient temperatures. The curves show the behavior of the battery after a number of cycles.



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