



## MGR 2-1500G

**VALVE REGULATED LEAD ACID  
2 VOLT FLAT PASTED PLATE BATTERY  
GELLED ELECTROLYTE TECHNOLOGY**

### Innovative Features

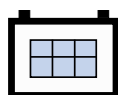
- ☑ Valve regulated Lead Acid (V.R.L.A.) design;
- ☑ Sulfuric acid thixotropic gel, electrolyte in solid gel form will not stratify – no equalization charge required. Gel powder from Europe leading supplier to ensure the unique performance of gel battery;
- ☑ Microporous rubber and corrugated PVC SiO<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);
- ☑ 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.

## Modular Gel Range VRLA

# HIGH PERFORMANCE

### Performance Specifications

|                                        |                                                                                                                                                                           |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Normal Voltage                         | 2V                                                                                                                                                                        |
| Normal Capacity                        | 1500Ah @ 10hr to 1.80V per cell @ 20°C (68°F)<br>1698Ah @ 20hr to 1.75V per cell @ 20°C (68°F)                                                                            |
| Weight                                 | Approx. 100 kg (220 lbs)                                                                                                                                                  |
| Dimension                              | Length x Width x Height x Total Height:<br>400 x 350 x 345 x 351 mm                                                                                                       |
| Internal Resistance                    | Approx. 0.11 mΩ @ 20°C (68°F)                                                                                                                                             |
| Maximum Charge Current                 | 300 A                                                                                                                                                                     |
| Short Circuit Current                  | 9920 A                                                                                                                                                                    |
| 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)                                                                                                                                            |
| Maximum Charge Voltage                 | 2.40 VPC at 20°C /25°C                                                                                                                                                    |
| Float Voltage                          | 2.25 VPC +/- 1% at 20°C /25°C                                                                                                                                             |
| Cycle service                          | 2.35 VPC +/- 1% at 20°C /25°C                                                                                                                                             |
| Container & Cover                      | <b>Standard:</b> Reinforced ABS (UL 94HB)<br><b>Optional:</b> Flame-retardant reinforced ABS compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%. |
| NO. of Terminal                        | 8                                                                                                                                                                         |
| Terminal Type                          | (ST2) Copper Insert type terminal with 18 mm diameter insert.                                                                                                             |



# Modular Gel Range VRLA

**EverExceed®**  
power your applications

| Cell Type   | Discharge Amps Per Cell @ 20°C (68°F) |                           |      |      |      |      |     |         |                         |     |     |     |     |     |     |     |     |      |      |      |      |
|-------------|---------------------------------------|---------------------------|------|------|------|------|-----|---------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
|             | End VPC                               | Discharge Time In Minutes |      |      |      |      |     | End VPC | 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 2-1500G | 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 |

| Cell Type   | Discharge Watts Per Cell @ 20°C (68°F) |                           |      |      |      |      |      |         |                         |      |     |     |     |     |     |     |     |     |     |  |
|-------------|----------------------------------------|---------------------------|------|------|------|------|------|---------|-------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|             | End VPC                                | Discharge Time In Minutes |      |      |      |      |      | End VPC | Discharge Time In Hours |      |     |     |     |     |     |     |     |     |     |  |
|             |                                        | 5                         | 10   | 15   | 30   | 45   | 60   |         | 1.5                     | 2    | 3   | 4   | 5   | 6   | 8   | 10  | 12  | 20  | 24  |  |
| 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 |  |

