

## Product design features:

- 12+ years design life, EUROBAT specification Long Life
- Extremely high cyclic life and float life performance
- Wide range of operating temperature -20°C to +55°C
- One-way valve regulated system with flame-arrestor
- Internal gas recombination efficiency 98% - 99%
- Easy for installation, maintenance free product
- Delivered ready for use
- Shock resistant ABS flame retardant container and lid
- Three-layer terminal sealing for leak-free operation
- Female M8 brass terminals with no need for retightening
- Non-hazardous cargo for ground, sea and air transport
- Fully recyclable product

### Electrical Characteristics

|                              | at 20°C                               | at 25°C         |
|------------------------------|---------------------------------------|-----------------|
| Nominal voltage              | 4 Volts                               |                 |
| 10 hour capacity to 1.80 Vpc | 302.0 Ah                              | 311.0 Ah        |
| 8 hour capacity to 1.75 Vpc  | 295.2 Ah                              | 304.0 Ah        |
| Float voltage                | 2.27 – 2.29 Vpc                       | 2.25 – 2.27 Vpc |
| Accelerated recharge         | According to operational instructions |                 |
| Shelf life                   | 1 year                                |                 |
| Short circuit current        | 5040 Amps                             |                 |
| Internal resistance          | 0.81 mΩ                               |                 |



### Mechanical Characteristics

|                 | SI Units | US Units    |
|-----------------|----------|-------------|
| Length          | 386 mm   | 15.2 inches |
| Width           | 168 mm   | 6.6 inches  |
| Height          | 232 mm   | 9.1 inches  |
| Weight          | 36.0 kg  | 79.4 lbs    |
| Terminal Torque | 8.0 Nm   | 70.8 in.lbs |

compliant with IEC 60 896 - 21/22,  
EN 60 896 - part 2, BS 6290 - part 4

### Discharge performance at constant current discharge (A) for battery 4MVR300 at 20°C

| Uf, Vpc | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h   | 3 h  | 4 h  | 5 h  | 6 h  | 8 h  | 10 h | 20 h |
|---------|-------|--------|--------|--------|-----|-------|------|------|------|------|------|------|------|
| 1.60    | 1025  | 720    | 567    | 350    | 196 | 114.5 | 82.2 | 66.9 | 56.0 | 48.1 | 37.9 | 31.4 | 17.2 |
| 1.65    | 940   | 689    | 551    | 344    | 190 | 113.4 | 81.7 | 66.2 | 55.2 | 47.3 | 37.5 | 31.0 | 16.9 |
| 1.70    | 869   | 649    | 525    | 332    | 187 | 111.9 | 80.7 | 65.7 | 55.0 | 47.1 | 37.2 | 30.9 | 16.7 |
| 1.75    | 787   | 614    | 502    | 319    | 180 | 109.0 | 79.5 | 64.9 | 54.2 | 46.5 | 36.9 | 30.5 | 16.5 |
| 1.80    | 694   | 552    | 465    | 298    | 173 | 106.5 | 77.5 | 63.2 | 53.2 | 45.5 | 36.2 | 30.2 | 16.2 |
| 1.85    | 592   | 486    | 417    | 264    | 160 | 100.5 | 73.4 | 60.0 | 50.9 | 43.8 | 34.4 | 28.9 | 15.7 |

### Discharge performance at constant current discharge (A) for battery 4MVR300 at 25°C

| Uf, Vpc | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h   | 3 h  | 4 h  | 5 h  | 6 h  | 8 h  | 10 h | 20 h |
|---------|-------|--------|--------|--------|-----|-------|------|------|------|------|------|------|------|
| 1.60    | 1056  | 742    | 583    | 361    | 201 | 117.9 | 84.7 | 68.9 | 57.7 | 49.5 | 39.0 | 32.3 | 17.7 |
| 1.65    | 968   | 709    | 567    | 354    | 195 | 116.8 | 84.2 | 68.1 | 56.8 | 48.7 | 38.6 | 31.9 | 17.4 |
| 1.70    | 895   | 668    | 541    | 341    | 192 | 115.2 | 83.1 | 67.6 | 56.7 | 48.5 | 38.3 | 31.8 | 17.1 |
| 1.75    | 810   | 632    | 517    | 329    | 185 | 112.3 | 81.9 | 66.8 | 55.8 | 47.8 | 38.0 | 31.4 | 17.0 |
| 1.80    | 714   | 568    | 479    | 307    | 178 | 109.7 | 79.8 | 65.0 | 54.7 | 46.9 | 37.2 | 31.1 | 16.6 |
| 1.85    | 609   | 501    | 429    | 272    | 165 | 103.5 | 75.6 | 61.8 | 52.4 | 45.1 | 35.4 | 29.7 | 16.1 |

### Discharge performance at constant power discharge (W per cell) for battery 4MVR300 at 20°C

| Uf, Vpc | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h   | 3 h   | 4 h   | 5 h  | 6 h  | 8 h  | 10 h | 20 h |
|---------|-------|--------|--------|--------|-----|-------|-------|-------|------|------|------|------|------|
| 1.60    | 1478  | 1070   | 845    | 535    | 325 | 202.8 | 146.0 | 118.1 | 98.9 | 85.3 | 68.9 | 58.5 | 33.0 |
| 1.65    | 1406  | 1028   | 822    | 526    | 390 | 200.0 | 145.4 | 117.6 | 98.4 | 84.8 | 68.5 | 57.8 | 32.6 |
| 1.70    | 1322  | 995    | 792    | 519    | 314 | 198.4 | 143.2 | 116.7 | 97.2 | 83.8 | 67.8 | 57.6 | 32.4 |
| 1.75    | 1239  | 945    | 756    | 500    | 307 | 196.1 | 142.1 | 115.2 | 96.3 | 83.0 | 67.1 | 57.4 | 32.1 |
| 1.80    | 1106  | 845    | 689    | 471    | 299 | 191.1 | 138.2 | 113.0 | 94.5 | 81.4 | 66.0 | 56.0 | 31.9 |
| 1.85    | 936   | 739    | 608    | 422    | 276 | 182.2 | 132.1 | 108.4 | 90.7 | 78.6 | 63.9 | 54.1 | 31.1 |

### Discharge performance at constant power discharge (W per cell) for battery 4MVR300 at 25°C

| Uf, Vpc | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h   | 3 h   | 4 h   | 5 h   | 6 h  | 8 h  | 10 h | 20 h |
|---------|-------|--------|--------|--------|-----|-------|-------|-------|-------|------|------|------|------|
| 1.60    | 1522  | 1102   | 870    | 551    | 334 | 208.9 | 150.3 | 121.6 | 101.9 | 87.8 | 71.0 | 60.3 | 33.9 |
| 1.65    | 1448  | 1059   | 847    | 542    | 401 | 206.0 | 149.8 | 121.1 | 101.3 | 87.3 | 70.6 | 59.5 | 33.6 |
| 1.70    | 1362  | 1024   | 815    | 534    | 323 | 204.3 | 147.4 | 120.1 | 100.1 | 86.3 | 69.8 | 59.3 | 33.4 |
| 1.75    | 1276  | 973    | 778    | 515    | 316 | 202.0 | 146.3 | 118.6 | 99.2  | 85.5 | 69.1 | 59.1 | 33.0 |
| 1.80    | 1139  | 870    | 710    | 485    | 308 | 196.8 | 142.3 | 116.3 | 97.3  | 83.8 | 67.9 | 57.6 | 32.8 |
| 1.85    | 964   | 761    | 626    | 435    | 284 | 187.7 | 136.0 | 111.6 | 93.4  | 80.9 | 65.8 | 55.7 | 32.0 |