

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 at 100% of its nominal capacity
- 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 | 2 Volts | |
| 10 hour capacity to 1.80 Vpc | 352.0 Ah | 363.0 Ah |
| 8 hour capacity to 1.75 Vpc | 344.0 Ah | 354.4 Ah |
| Float voltage | 2.27 Vpc ± 1% | 2.26 Vpc ± 1% |
| Accelerated charge voltage | 2.40 Vpc without current limit | |
| Shelf life | 1 year | |
| Short circuit current | 4840 Amps | |
| Internal resistance | 0.43 mΩ | |

MONBAT is proud to be certified for ISO 9001:2000,
ISO 14001:1996, OHSAS 18001:1999, AQAP 2110

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 | 31.0 kg | 68.3 lbs |
| Terminal Torque | 9.0 Nm | 79.6 in.lbs |

All MONBAT VRLA batteries are fully
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 2MVR350 at 20°C

| Uf, Vpc | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h | 20 h |
|---------|--------|--------|--------|--------|--------|--------|-------|-------|------|------|------|------|------|------|
| 1.60 | 1195.8 | 840.0 | 661.1 | 544.4 | 408.3 | 290.7 | 232.0 | 133.6 | 97.8 | 78.0 | 65.3 | 44.1 | 36.6 | 20.0 |
| 1.65 | 1096.7 | 803.1 | 642.1 | 532.8 | 400.6 | 284.3 | 225.4 | 132.2 | 97.2 | 77.2 | 64.4 | 43.8 | 36.2 | 19.6 |
| 1.70 | 1013.1 | 756.4 | 612.5 | 515.3 | 386.9 | 276.3 | 221.7 | 130.5 | 96.1 | 76.6 | 64.2 | 43.4 | 36.0 | 19.4 |
| 1.75 | 917.8 | 716.3 | 585.3 | 497.8 | 372.4 | 266.0 | 214.3 | 127.2 | 94.7 | 75.6 | 63.2 | 43.0 | 35.6 | 19.3 |
| 1.80 | 808.9 | 643.6 | 542.5 | 462.8 | 347.7 | 253.9 | 205.3 | 124.3 | 92.4 | 73.7 | 62.0 | 42.2 | 35.2 | 18.9 |
| 1.85 | 690.3 | 567.0 | 486.1 | 408.3 | 308.0 | 232.4 | 190.6 | 117.3 | 87.5 | 70.0 | 59.3 | 40.1 | 33.6 | 18.3 |

Discharge performance at constant current discharge (A) for battery 2MVR350 at 25°C

| Uf, Vpc | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h | 20 h |
|---------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|------|------|------|------|
| 1.60 | 1231.7 | 865.2 | 680.9 | 560.8 | 420.6 | 299.4 | 238.9 | 137.6 | 100.7 | 80.3 | 67.3 | 45.5 | 37.7 | 20.6 |
| 1.65 | 1129.6 | 827.1 | 661.3 | 548.8 | 412.6 | 292.8 | 232.1 | 136.2 | 100.1 | 79.5 | 66.3 | 45.1 | 37.3 | 20.2 |
| 1.70 | 1043.4 | 779.1 | 630.9 | 530.7 | 398.6 | 284.6 | 228.3 | 134.4 | 98.9 | 78.9 | 66.1 | 44.7 | 37.1 | 20.0 |
| 1.75 | 945.3 | 737.8 | 602.8 | 512.7 | 383.5 | 274.0 | 220.7 | 131.0 | 97.5 | 77.9 | 65.1 | 44.3 | 36.7 | 19.8 |
| 1.80 | 833.2 | 662.9 | 558.8 | 476.7 | 358.1 | 261.6 | 211.5 | 128.0 | 95.1 | 75.9 | 63.9 | 43.5 | 36.3 | 19.4 |
| 1.85 | 711.0 | 584.0 | 500.7 | 420.6 | 317.2 | 239.3 | 196.3 | 120.8 | 90.1 | 72.1 | 61.1 | 41.3 | 34.6 | 18.8 |

Discharge performance at constant power discharge (W per cell) for battery 2MVR350 at 20°C

| Uf, Vpc | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h | 20 h |
|---------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|------|------|------|
| 1.60 | 1724.1 | 1247.7 | 985.2 | 816.7 | 624.2 | 470.1 | 385.5 | 236.6 | 173.7 | 137.7 | 115.4 | 80.4 | 68.3 | 38.4 |
| 1.65 | 1639.8 | 1199.1 | 959.3 | 803.7 | 613.8 | 462.3 | 375.9 | 233.3 | 173.1 | 137.2 | 114.7 | 79.9 | 67.4 | 38.0 |
| 1.70 | 1542.6 | 1160.2 | 923.6 | 781.0 | 604.7 | 453.7 | 372.5 | 231.4 | 170.5 | 136.1 | 113.4 | 79.1 | 67.2 | 37.8 |
| 1.75 | 1445.4 | 1101.9 | 881.5 | 745.4 | 583.3 | 442.5 | 364.7 | 228.8 | 169.2 | 134.4 | 112.3 | 78.2 | 67.0 | 37.4 |
| 1.80 | 1289.8 | 985.2 | 803.7 | 690.5 | 548.8 | 423.9 | 356.0 | 223.0 | 164.6 | 131.8 | 110.2 | 76.9 | 65.3 | 37.1 |
| 1.85 | 1092.1 | 862.0 | 709.1 | 615.7 | 492.6 | 388.9 | 328.6 | 212.6 | 157.5 | 126.4 | 105.8 | 74.5 | 63.1 | 36.3 |

Discharge performance at constant power discharge (W per cell) for battery 2MVR350 at 25°C

| Uf, Vpc | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h | 20 h |
|---------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|------|------|------|
| 1.60 | 1775.8 | 1285.1 | 1014.7 | 841.2 | 642.9 | 484.2 | 397.0 | 243.7 | 178.9 | 141.9 | 118.8 | 82.8 | 70.3 | 39.6 |
| 1.65 | 1689.0 | 1235.0 | 988.0 | 827.8 | 632.2 | 476.2 | 387.2 | 240.3 | 178.2 | 141.3 | 118.2 | 82.3 | 69.4 | 39.2 |
| 1.70 | 1588.9 | 1195.0 | 951.3 | 804.4 | 622.9 | 467.3 | 383.7 | 238.3 | 175.6 | 140.2 | 116.8 | 81.4 | 69.2 | 38.9 |
| 1.75 | 1488.7 | 1134.9 | 907.9 | 767.7 | 600.8 | 455.8 | 375.7 | 235.7 | 174.2 | 138.4 | 115.7 | 80.6 | 69.0 | 38.5 |
| 1.80 | 1328.5 | 1014.7 | 827.8 | 711.2 | 565.3 | 436.6 | 366.7 | 229.7 | 169.6 | 135.7 | 113.5 | 79.2 | 67.2 | 38.3 |
| 1.85 | 1124.9 | 887.9 | 730.3 | 634.2 | 507.4 | 400.6 | 338.5 | 219.0 | 162.2 | 130.2 | 109.0 | 76.8 | 65.0 | 37.4 |