

### 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

|                              |                                       |
|------------------------------|---------------------------------------|
| Nominal voltage              | 12 Volts                              |
| 10 hour capacity to 1.80 Vpc | 152.0 Ah                              |
| 8 hour capacity to 1.75 Vpc  | 145.6 Ah                              |
| Float voltage                | 2.27 Vpc at 20°C, 2.25 Vpc at 25°C    |
| Accelerated recharge         | According to operational instructions |
| Shelf life                   | Up to 1 year                          |
| Short circuit current        | 2565 Amps                             |
| Internal resistance          | 4.85 mΩ                               |

#### Mechanical Characteristics

|                 | SI Units | US Units    |
|-----------------|----------|-------------|
| Length          | 555 mm   | 21.8 inches |
| Width           | 125 mm   | 4.9 inches  |
| Height          | 320 mm   | 12.6 inches |
| Typical Weight  | 51.2 kg  | 112.9 lbs   |
| Terminal Torque | 8.0 Nm   | 70.8 in.lbs |

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 12MVR150 at 25°C

| Uf, Vpc | 5 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    | 444   | 250    | 151    | 100 | 56.0 | 41.4 | 33.8 | 28.7 | 24.2 | 18.7 | 15.9 | 8.42 |
| 1.65    | 420   | 241    | 148    | 97  | 55.0 | 40.9 | 33.4 | 28.6 | 24.1 | 18.6 | 15.8 | 8.31 |
| 1.70    | 391   | 232    | 144    | 95  | 54.0 | 40.0 | 33.0 | 28.4 | 23.8 | 18.4 | 15.6 | 8.23 |
| 1.75    | 347   | 221    | 141    | 92  | 53.2 | 39.8 | 32.8 | 28.0 | 23.7 | 18.2 | 15.4 | 8.16 |
| 1.80    | 303   | 204    | 134    | 90  | 52.3 | 39.5 | 32.5 | 27.8 | 23.5 | 18.0 | 15.2 | 8.12 |
| 1.85    | 242   | 182    | 121    | 84  | 50.0 | 39.0 | 32.2 | 27.1 | 23.0 | 17.5 | 14.7 | 7.90 |

#### Discharge performance at constant power discharge (W per cell) for battery 12MVR150 at 25°C

| Uf, Vpc | 5 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    | 885   | 542    | 320    | 195 | 107.6 | 83.2 | 69.7 | 57.9 | 49.0 | 37.0 | 31.2 | 16.5 |
| 1.65    | 837   | 523    | 314    | 191 | 106.1 | 82.7 | 69.3 | 57.7 | 48.8 | 36.8 | 31.0 | 16.4 |
| 1.70    | 769   | 500    | 307    | 189 | 104.6 | 81.4 | 68.5 | 57.6 | 48.6 | 36.4 | 30.9 | 16.3 |
| 1.75    | 700   | 470    | 301    | 182 | 103.1 | 80.9 | 68.2 | 57.1 | 48.5 | 36.1 | 30.7 | 16.2 |
| 1.80    | 621   | 433    | 288    | 180 | 101.9 | 80.7 | 67.5 | 56.2 | 47.9 | 35.6 | 29.9 | 16.1 |
| 1.85    | 520   | 382    | 259    | 170 | 97.8  | 80.4 | 66.7 | 54.6 | 46.5 | 34.5 | 29.3 | 15.9 |