

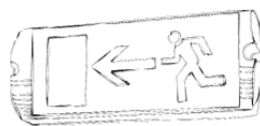
Product features

- Maintenance free battery, no need for watering
- Specific environmentally friendly formation process
- Spill & leak proof construction
- Analytical grade electrolyte
- Safety valves
- Container and lid made from ABS (UL 94 V-0 version available on request)
- Low self-discharge
- Non dangerous good according to FAA and IATA classification
- Complies with the following standards: IEC 60896-21/22, EUROBAT
- Tested by Det Norske Veritas / Germanischer Lloyd



Specification

| | |
|-----------------------|---|
| Nominal voltage | 12 V |
| Nominal capacity | 55 Ah |
| Design life | 12 years |
| Operating temperature | -20°C to 50°C (-4°F to 122°F) |
| Grid alloy | Lead-calcium-tin |
| Electrode design | Flat grid, pasted |
| Separator | Absorbent Glass Mat (AGM) |
| Active material | High purity lead and lead dioxide |
| Container and lid | ABS UL 94 HB (V-0 version on request) |
| Charge voltage | Float charging: 2.275 Vpc @ 20°C (68°F) Cyclic use: see instruction for use |
| Electrolyte | Maximum ripple: 0.05 C (A) Purified high grade sulfuric acid |
| Safety valve | EPDM rubber, opening pressure 10.5 to 14 kPa (1.5 to 2 psi), closing pressure ca. 7 kPa (1 psi) |
| Terminal | Insert M6 |



CTM GmbH encourages environmental awareness. Please observe all existing guidelines for recycling/disposal of lead.

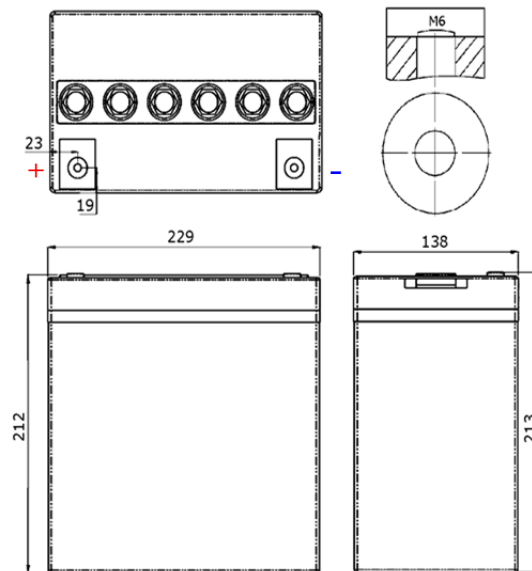
Physical Data

Dimension (±2 mm/± 0.08 inch)

| | | |
|-----------------------|----------|-------------|
| Length | 229 mm | 9.02 inches |
| Width | 138 mm | 5.43 inches |
| Height | 212 mm | 8.35 inches |
| Height incl. terminal | 213 mm | 8.39 inches |
| Weight | 17.3 kg | 38.23 lbs. |
| Terminal | Standard | Insert M6 |
| | Option | automotive |

Electrical Data

| | | |
|--|------------------|------------------------------------|
| Nominal voltage | | 12 V |
| Capacity 20°C (68°F) to 1.7 Vpc | 20 h | 60.8 Ah |
| | 10 h | 58.9 Ah |
| | 5 h | 54.0 Ah |
| | 1 h | 39.9 Ah |
| | 15 min | 27.0 Ah |
| Internal resistance | | 5.8 mΩ |
| | Impedance | 600 S |
| Temperature correction factors (C20) | 40°C (104°F) | 102% |
| | 20°C (68°F) | 100% |
| | 0°C (32°F) | 85% |
| | -15°C (5°F) | 65% |
| Self-discharge at 20°C (68°F) - capacity after | 1 month storage | 98% |
| | 3 months storage | 94% |
| | 6 months storage | 86% |
| Short circuit current | A @ 20°C (68°F) | 1700 |
| Charging voltage | Float charging | 2.27-2.30 Vpc 25-15°C (77-59°F) |
| | cyclic | See operating instruction |



Constant current discharge – A @ 20°C (68°F)

| Uf Vpc | 5 min | 10 min | 15 min | 20 min | 30 min | 60 min | 2 h | 5 h | 8 h | 10 h | 20 h |
|--------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|
| 1.85 | 180 | 117 | 93.0 | 77.2 | 57.5 | 34.3 | 25.2 | 19.9 | 9.2 | 6.1 | 5.0 |
| 1.80 | 192 | 125 | 99.3 | 82.5 | 61.4 | 36.7 | 26.9 | 21.2 | 9.9 | 6.6 | 5.4 |
| 1.75 | 204 | 134 | 106 | 87.7 | 65.4 | 39.0 | 28.7 | 22.6 | 10.6 | 7.0 | 5.7 |
| 1.70 | 208 | 136 | 108 | 89.6 | 66.8 | 39.9 | 29.3 | 23.1 | 10.8 | 7.1 | 5.8 |
| 1.65 | 211 | 138 | 109 | 90.8 | 67.6 | 40.4 | 29.7 | 23.3 | - | - | - |
| 1.60 | 213 | 140 | 110 | 91.7 | 68.3 | 40.8 | 30.0 | 23.6 | - | - | - |

Constant power discharge – Watt per cell @ 20°C (68°F)

| Uf Vpc | 5 min | 10 min | 15 min | 20 min | 30 min | 60 min | 2 h | 5 h | 8 h | 10 h | 20 h |
|--------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|
| 1.85 | 372 | 220 | 166 | 139 | 108 | 66.1 | 47.9 | 37.7 | 18.0 | 12.2 | 10.0 |
| 1.80 | 397 | 235 | 177 | 148 | 115 | 70.6 | 51.2 | 40.2 | 19.2 | 13.0 | 10.7 |
| 1.75 | 422 | 250 | 189 | 158 | 123 | 75.1 | 54.5 | 42.8 | 20.4 | 13.8 | 11.4 |
| 1.70 | 432 | 255 | 193 | 161 | 126 | 76.8 | 55.7 | 43.7 | 20.8 | 14.1 | 11.6 |
| 1.65 | 437 | 258 | 195 | 163 | 127 | 77.7 | 56.4 | 44.3 | - | - | - |
| 1.60 | 441 | 261 | 197 | 165 | 128 | 78.5 | 56.9 | 44.7 | - | - | - |

Capacity – Ah @ 20°C (68°F)

| Uf Vpc | 2 h | 3 h | 5 h | 8 h | 10 h | 20 h |
|--------|------|------|------|------|------|------|
| 1.85 | 39.7 | 42.6 | 46.5 | 49.4 | 50.7 | 52.4 |
| 1.80 | 42.4 | 45.5 | 49.6 | 52.8 | 54.1 | 55.9 |
| 1.75 | 45.1 | 48.4 | 52.8 | 56.2 | 57.6 | 59.5 |
| 1.70 | 46.1 | 49.5 | 54.0 | 57.4 | 58.9 | 60.8 |
| 1.65 | 46.7 | 50.1 | - | - | - | - |
| 1.60 | 47.2 | 50.6 | - | - | - | - |

