

ACUMAX® sealed maintenance-free lead-acid battery AML series



AML 100-12

- uninterruptible power supplies
- telecom power supply systems
- telecommunication PABX
- power station
- fire and security systems
- solar powered systems
- emergency lighting systems
- cable TV

Technical data

| | |
|-----------------------------|--|
| Nominal voltage | 12 V |
| Nominal capacity | 100 Ah/ C ₂₀ |
| Design life | 8 years @ 25°C 10-12 years @ 20°C according to Eurobat, Long Life group |
| Weight | ~ 31.3 kg |
| Dimensions | |
| Height | 220 mm |
| Length | 330 mm |
| Width | 172 mm |
| Internal resistance | ≤ 4.0 mΩ |
| Charging voltage @ 25°C | |
| Standby use | 13.65 V ± 0.18 V |
| Cykle use | 14.70 V ± 0.30 V |
| Charging current | |
| Recommended | 10 A |
| Maximum | 30 A |
| Max. discharge current (5s) | 1200 A |
| Container material | |
| Standard | ABS UL 94-HB |
| Optional (Flame-retardant) | ABS UL 94-V0 |

Battery approved for transportation by air, sea or land. Classified as non-hazardous material: IATA/ICAO Special Provision A67, DOT-CFR Title 49 parts 171-189, IMDG amendment 27.

Constant current discharge (Current [A], 25 [°C] / 77 [°F])

| U _k [V/cell] | Discharge time | | | | | | | | |
|----------------------------|----------------|--------|--------|--------|------|------|------|------|------|
| | 10 min | 15 min | 20 min | 30 min | 1h | 3h | 5h | 10h | 20h |
| 1,80 | 212 | 181 | 147 | 121 | 65,3 | 29,1 | 17,9 | 10,1 | 5,28 |
| 1,75 | 235 | 191 | 163 | 127 | 69,5 | 29,8 | 18,7 | 10,3 | 5,42 |
| 1,70 | 256 | 200 | 171 | 130 | 71,7 | 30,4 | 18,9 | 10,5 | 5,45 |

Constant power discharge (Power [W/cell], 25 [°C] / 77 [°F])

| U _k [V/cell] | Discharge time | | | | | | | | |
|----------------------------|----------------|--------|--------|--------|-----|------|------|------|------|
| | 10 min | 15 min | 20 min | 30 min | 1h | 3h | 5h | 10h | 20h |
| 1,75 | 415 | 355 | 302 | 233 | 140 | 55,8 | 37,3 | 20,2 | 11,1 |
| 1,70 | 440 | 368 | 315 | 236 | 143 | 57,6 | 37,7 | 20,5 | 11,2 |
| 1,65 | 460 | 378 | 327 | 239 | 145 | 58,6 | 38,0 | 20,8 | 11,4 |

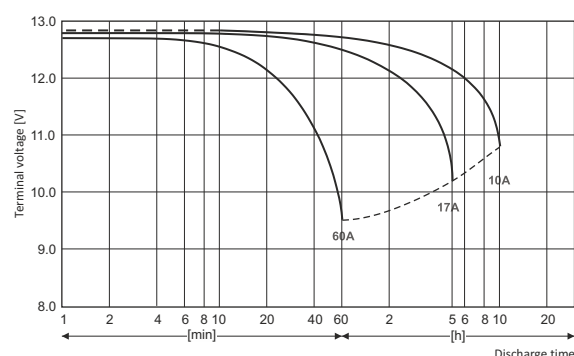
U_f - Final voltage



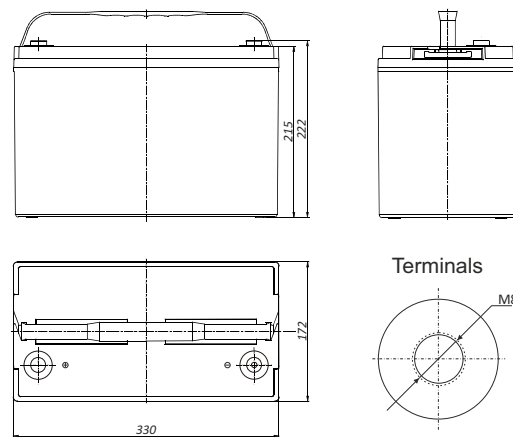
Main applications

- marine
- golf-carts, wheelchairs
- mobile and portable equipment
- medical equipment

Discharge characteristics



Dimensions



Tolerance: +/- 2mm;