

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



## AML 7-12

- 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            | 7 Ah/ C <sub>20</sub>  |
| Design life                 | 8 years @ 25°C<br>10-12 years @ 20°C according to Eurobat, Long Life group |
| Weight                      | ~ 2.4 kg   |
| Dimensions                  |  |
| Height                      | 102 mm   |
| Length                      | 151 mm   |
| Width                       | 65 mm  |
| Internal resistance         | ≤ 22.0 mΩ  |
| Charging voltage @ 25°C     |  |
| Standby use                 | 13.65 V ± 0.18 V   |
| Cycle use                   | 14.70 V ± 0.30 V   |
| Charging current            |  |
| Recommended                 | 0.72 A   |
| Maximum                     | 2.16 A   |
| Max. discharge current (5s) | 108 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 <sub>k</sub><br>[V/cell] | Discharge time |        |        |        |      |      |      |      |      |       |       |
|----------------------------|----------------|--------|--------|--------|------|------|------|------|------|-------|-------|
|                            | 5 min          | 10 min | 15 min | 30 min | 1h   | 2h   | 3h   | 4h   | 5h   | 10h   | 20h   |
| 1,80                       | 26,4           | 17,0   | 13,1   | 6,92   | 4,13 | 2,14 | 1,69 | 1,37 | 1,16 | 0,675 | 0,346 |
| 1,75                       | 28,1           | 18,2   | 13,6   | 7,14   | 4,25 | 2,21 | 1,75 | 1,42 | 1,23 | 0,682 | 0,350 |
| 1,70                       | 29,7           | 18,6   | 13,9   | 7,30   | 4,36 | 2,27 | 1,80 | 1,45 | 1,25 | 0,687 | 0,353 |

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

| U <sub>k</sub><br>[V/cell] | Discharge time |        |        |        |      |      |      |      |      |      |       |
|----------------------------|----------------|--------|--------|--------|------|------|------|------|------|------|-------|
|                            | 5 min          | 10 min | 15 min | 30 min | 1h   | 2h   | 3h   | 4h   | 5h   | 10h  | 20h   |
| 1,75                       | 50,3           | 32,7   | 26,2   | 14,1   | 8,97 | 4,63 | 3,60 | 3,10 | 2,63 | 1,42 | 0,737 |
| 1,70                       | 52,5           | 34,0   | 26,8   | 14,5   | 9,15 | 5,22 | 3,73 | 3,15 | 2,68 | 1,44 | 0,750 |
| 1,65                       | 54,3           | 35,3   | 27,5   | 14,7   | 9,30 | 5,32 | 3,82 | 3,20 | 2,72 | 1,45 | 0,760 |

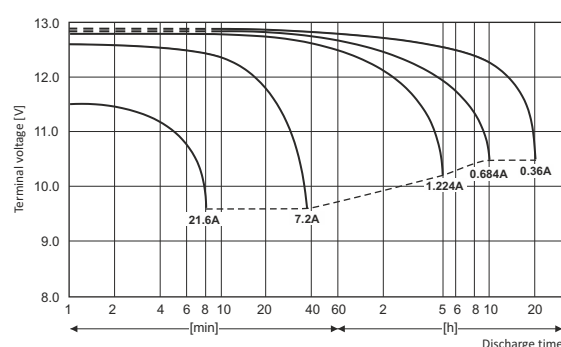
U<sub>f</sub> - Final voltage



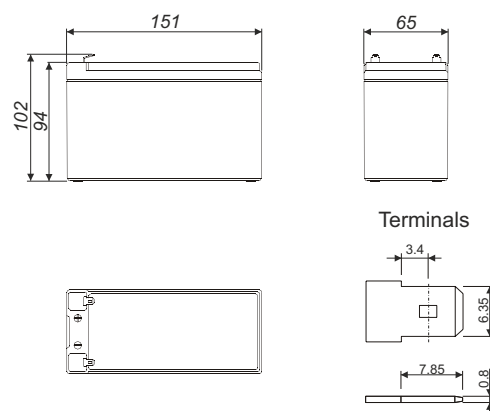
### Main applications

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

### Discharge characteristics



### Dimensions



Tolerance: +/- 1mm;