

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



## AM 12-12

- uninterruptible power supplies
- telecommunication PABX
- cash registers and fiscal printers
- emergency lighting systems
- fire and security systems
- solar powered systems
- mobile and portable equipment
- lawn mowers, electrical bicycle

### Technical data

|                             |                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------|
| Nominal voltage             | 12 V                                                                            |
| Nominal capacity            | 12 Ah/ C <sub>20</sub>                                                          |
| Design life                 | 5 years @ 25°C<br>6-9 years @ 20°C according to Eurobat , General Purpose group |
| Weight                      | ~ 3.75 kg                                                                       |
| Dimensions                  |                                                                                 |
| Height                      | 101 mm                                                                          |
| Length                      | 151 mm                                                                          |
| Width                       | 98 mm                                                                           |
| Internal resistance         | ≤ 13 mΩ                                                                         |
| Charging voltage @ 25°C     |                                                                                 |
| Standby use                 | 13.65 V ± 0.18 V                                                                |
| Cycle use                   | 14.70 V ± 0.30 V                                                                |
| Charging current            |                                                                                 |
| Recommended                 | 1.2 A                                                                           |
| Maximum                     | 3.6 A                                                                           |
| Max. discharge current (5s) | 180 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                       | 41,4           | 28,1   | 21,3   | 12,1   | 8,40 | 4,36 | 3,06 | 2,43 | 2,03 | 1,18 | 0,599 |
| 1,75                       | 44,5           | 29,4   | 22,1   | 12,6   | 8,52 | 4,47 | 3,13 | 2,47 | 2,08 | 1,20 | 0,618 |
| 1,70                       | 47,7           | 30,7   | 22,9   | 13,0   | 8,63 | 4,56 | 3,19 | 2,52 | 2,14 | 1,22 | 0,627 |

### 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                       | 80,8           | 54,9   | 42,6   | 24,6   | 16,7 | 9,04 | 6,05 | 4,96 | 4,18 | 2,44 | 1,25 |
| 1,70                       | 86,7           | 57,3   | 44,1   | 25,4   | 17,0 | 9,14 | 6,20 | 5,06 | 4,30 | 2,47 | 1,26 |
| 1,65                       | 91,9           | 59,5   | 45,4   | 25,9   | 17,3 | 9,24 | 6,35 | 5,20 | 4,38 | 2,50 | 1,29 |

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



Pb

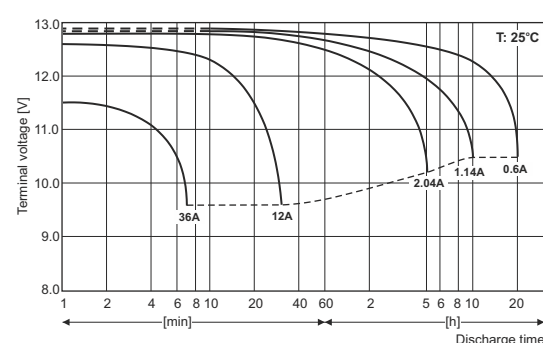
Pb

All data are subject to change without notice.

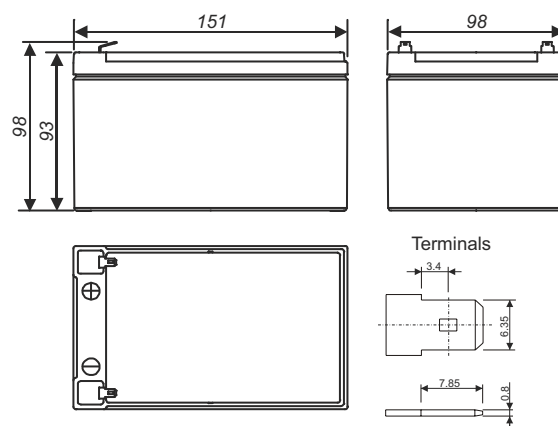
### Main applications

- medical equipment
- fishing lights
- parking meters
- toys

### Discharge characteristics



### Dimensions



Tolerance: +/- 1mm;