

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



## AML 80-12

Sealed, maintenance free, lead-acid **ACUMAX®** batteries with a **10 - 12 years** designed lifetime are made in **AGM** technology - electrolyte is absorbed in highly porous fiber glass separators placed between the plates. They use a gas recombination cycle which prevents electrolyte loss and allows the batteries to be used in rooms without forced ventilation, that are occupied by people. One-way, self-regulating pressure relief valves prevent the case from blowing up, by preventing excessive buildup of pressure in the cells.

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

### Main applications

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

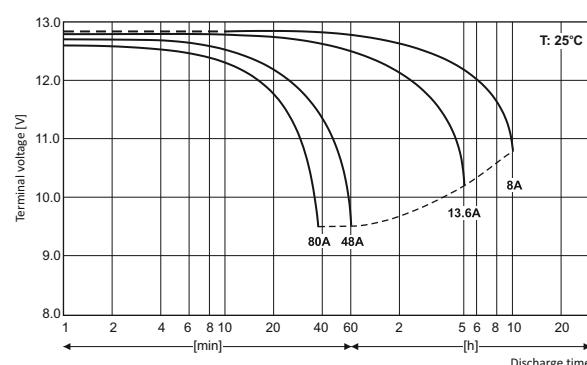
### Technical data

Nominal voltage	12 V
Nominal capacity	80 Ah/ C <sub>20</sub>
Design life	8 years @ 25°C 10-12 years @ 20°C according to Eurobat, Long Life group
Weight	~ 24.2 kg
Dimensions	
Height	207 mm
Length	260 mm
Width	170 mm
Internal resistance	~ 5 mΩ*
Charging voltage @ 25°C	
Standby use	13,65 V ± 0,18 V
Cykle use	14,70 V ± 0,30 V
Charging current	
Recommended	8 A
Maximum	24 A
Max. discharge current (5s)	960 A
Container material	
Standard	ABS UL 94-HB
Optional (Flame-retardant)	ABS UL 94-V0

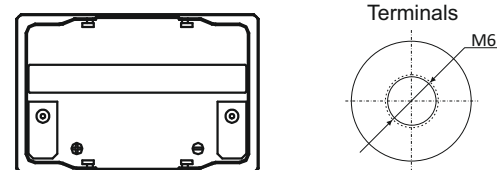
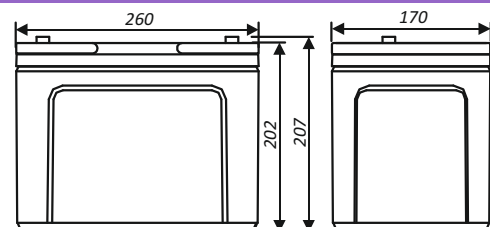
\*for a fully charged battery

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.*

### Discharge characteristics



### Dimensions



Tolerance: +/- 2mm;

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

U <sub>k</sub> [V/cell]	Discharge time										
	5 min	10 min	15 min	30 min	1h	2h	3h	4h	5h	10h	20h
<b>1,80</b>	178	112	90,5	63,2	38,6	20,2	15,8	12,9	11,8	7,53	3,94
<b>1,75</b>	214	143	109	72,6	41,5	22,4	17,4	13,9	12,6	7,62	4,00
<b>1,70</b>	245	167	124	79,4	43,3	23,9	18,4	14,7	13,1	7,69	4,03

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

U <sub>k</sub> [V/cell]	Discharge time										
	5 min	10 min	15 min	30 min	1h	2h	3h	4h	5h	10h	20h
<b>1,75</b>	504	372	296	195	120	69,7	49,1	37,8	30,7	15,9	8,1
<b>1,70</b>	554	398	310	199	122	70,5	49,6	38,2	31,0	16,0	8,1
<b>1,67</b>	584	411	317	201	122	70,5	49,6	38,4	31,2	16,1	8,2

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



All data are subject to change without notice.