

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



## AML 110-12

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

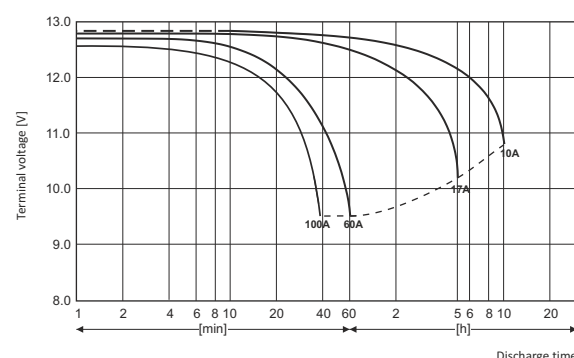
- marine
- golf-carts, wheelchairs
- mobile and portable equipment
- medical equipment

### Technical data

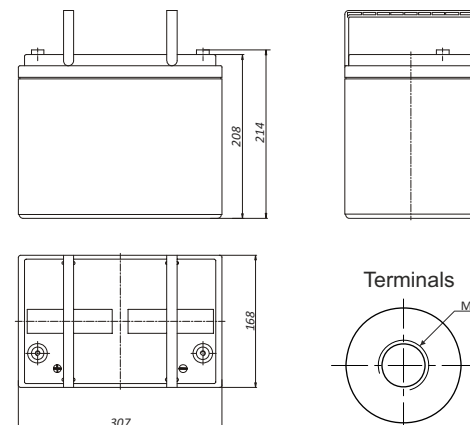
Nominal voltage	12 V
Nominal capacity	110 Ah/ C <sub>20</sub>
Design life	8 years @ 25°C 10-12 years @ 20°C according to Eurobat, Long Life group
Weight	~ 29.5 kg
Dimensions	
Height	214 mm
Length	307 mm
Width	168 mm
Internal resistance	≤ 5.0 mΩ
Charging voltage @ 25°C	
Standby use	13.65 V ± 0.18 V
Cykle use	14.70 V ± 0.30 V
Charging current	
Recommended	11 A
Maximum	33 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.*

### Discharge characteristics



### Dimensions



Tolerance: +/- 3mm;

### 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
1,80	261	218	189	123	65,5	37,5	28,9	19,2	17,6	10,0	5,22
1,75	300	239	202	129	67,5	38,1	29,4	20,1	18,4	10,2	5,36
1,70	320	256	210	132	69,6	38,7	29,8	20,3	18,6	10,4	5,39

### 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
1,75	527	463	373	248	140	74,2	55,5	39,2	36,7	19,9	10,9
1,70	561	488	385	252	142	74,9	56,6	41,2	37,1	20,2	11,1
1,67	577	497	389	254	143	75,6	57,1	41,8	37,2	20,3	11,2

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



All data are subject to change without notice.