



	UNIBAT 80.12 AGM	UNIBAT 100.12 AGM	UNIBAT 150.12 AGM	UNIBAT 220.12 AGM
	Ref 1573	Ref 1580	Ref 1597	Ref 1603

#### System

Battery voltage	12 V	12 V	12 V	12 V
Nominal capacity 20 h (C20)	86 Ah	100 Ah	150 Ah	220 Ah
Nominal capacity 100 h (C100)	93 Ah	108 Ah	162 Ah	238 Ah
Power at 80% discharge (Wh)	0,75 Wh	0,95 Wh	1,43 Wh	2,10 Wh
Temperature characteristics	30°C : 105% 25°C : 103% 10°C : 95% -10°C : 78%			
Self-discharge (25°)	1 month : 3% 3 months : 8% 6 months : 15 %			
Internal resistance (25°C)	< 5,8 mΩ	< 5 mΩ	< 3,1 mΩ	< 2,5 mΩ

#### Performances

Nominal capacity	20 h (C20)	80 Ah	100 Ah	150 Ah	220 Ah
	10 h (C10)	74 Ah	95 Ah	143 Ah	205 Ah
	5 h (C5)	67 Ah	87 Ah	131 Ah	194 Ah
	1 h (C1)	43 Ah	64 Ah	98 Ah	144 Ah
Cycles (% of discharge)	20%	2000 > 2500			
	50%	900 > 1000			
	80%	600 > 650			
	100%	350 > 400			
Maximum charging current	32 A	40 A	57 A	82 A	
Maximum discharge current	0,1 s	1600 A	1900 A	2860 A	4100 A
	5 s	640 A	760 A	1144 A	1640 A
	continuous	240 A	285 A	430 A	615 A
Cold start charging current (CCA-EN)	630A	650A	880A	1120A	
Permanent load performance (floating life)	25°C	10-11 years			
	30°C	7 years			
	35°C	4 years			
	40°C	3 years			

#### Mechanical characteristics

Connector technology	M8 copper nickel-silver plated brass insert			
Shape of plates	flat			
Plate material	pure lead at 99,9%			
Separator	AGM (Absorptive Glass Mat)			
Electrolyte	absorbed			
Case material	high-strength polypropylene			
Operating temperature	-15/+40°C			
Dimensions (w x h x d)	368 x 219	368 x 219	522 x 221	522 x 221
	x 172 mm	x 172 mm	x 240 mm	x 240 mm
Weight	27 kg	29,5 kg	43,5 kg	58,5 kg

#### Warranty

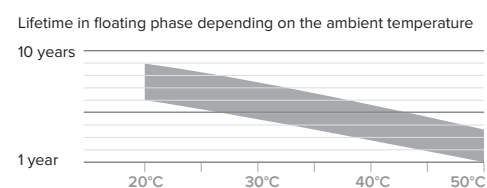
Period	2 years	2 years	2 years	2 years
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#### 1,5 TO 2 X MORE CYCLES\*



#### UP TO 2 X LONGER LIFETIME\*



#### STANDARD FLOODED BATTERY VS AGM

Flooded battery	AGM Battery
Strength	
-	+++ better circulations of the ions/ less internal resistance
Charging/discharging speed	
-	+++ better circulations of the ions/ less internal resistance
Load resistance	
- higher self-discharge	+++ lower self-discharge
Deep discharge	
---	++ possible up to 80% with imperative charging afterwards
Heat emission	
strong	<b>weak</b> less internal resistance
Storing	
- needs a well ventilated area (Hydrogen release)	+++ very weak hydrogen release
Transportation	
---	++ electrolyte absorbed by the glass mat
Resistance to shocks and vibrations	
- more fragile	+++ tightly fixed compressed sheets
Resistance to cold	
- risk of freezing	+++ no liquids

\* compared to most AGM batteries on the market



**AGM** Sealed battery for maximum security

**x 2** Higher charge/ discharge cycling capacity compared to other AGM batteries on the market

**80%** High discharge rates (imperative recharging afterwards)

**x 2** Longer lifespan than other AGM batteries

**Low** self-discharge

**Advanced technological design** (pure lead, carbon additive, machine pressed high density grid)

**Possible inclination** (until 30°)

#### UNIBAT AGM Batteries

## HIGH EFFICIENCY

Equipped with an advanced technological design (compressed high density pure lead grid, highly absorbent glass mat, carbon additive ...) UNIBAT AGM batteries perform up to 2 times better in cycling and lifespan than most batteries of the same category on the market.

Thanks to their unique internal design, UNIBAT AGM batteries can accept discharge rates up to 80% to make the most of the available energy. Their weak self-discharge guarantees a good stability over time.

Its AGM technology guarantees safe use without leaks or gas release.

