



UNIBAT 80.12 GEL Ref 1610
UNIBAT 100.12 GEL Ref 1627
UNIBAT 150.12 GEL Ref 1634
UNIBAT 220.12 GEL Ref 1641

System	UNIBAT 80.12 GEL	UNIBAT 100.12 GEL	UNIBAT 150.12 GEL	UNIBAT 220.12 GEL
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 90% discharge (Wh)	0,85 Wh	1,08 Wh	1,61 Wh	2,36 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

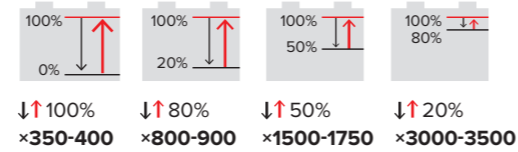
Performances	20 h (C20)	80 Ah	100 Ah	150 Ah	220 Ah
Nominal capacity	10 h (C10)	74 Ah	95 Ah	143 Ah	200 Ah
	5 h (C5)	70 Ah	87 Ah	131 Ah	191 Ah
	1 h (C1)	56 Ah	64 Ah	99 Ah	135 Ah
Cycles (% of discharge)	20%	3000 > 3500			
	50%	1500 > 1750			
	80%	800 > 900			
	100%	350 > 400			
Maximum charging current	20 A	25 A	37,5 A	55 A	
Maximum discharge current	0,1 s	1600 A	1900 A	2860 A	4000 A
	5 s	640 A	760 A	1140 A	1600 A
	continuous	240 A	285 A	430 A	600 A
Cold start charging current CCA-EN	630 A	650 A	880 A	1120 A	
Permanent load performance (floating life)	25°C	13 - 15 years			
	30°C	9 - 10 years			
	35°C	6 years			
	40°C	4 years			

Mechanical characteristics				
Connector technology	M8 copper nickel-silver plated brass insert			
Shape of plates	flat			
Case material	high-strength polypropylene plastic			
Electrolyte	jellified			
Material of plates	pure lead at 99,9%			
Operating temperature	-20/+50°C			
Dimensions (w x h x d)	368 x 219 x 172 mm	368 x 219 x 172 mm	522 x 221 x 240 mm	522 x 221 x 240 mm
Weight	27,5 kg	30 kg	45 kg	59 kg

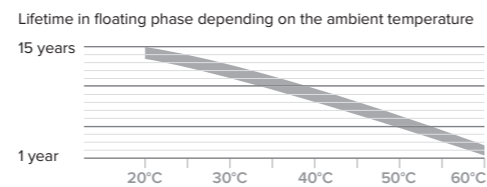
Warranty				
Period	2 years	2 years	2 years	2 years



1,5 TO 2 X MORE CYCLES*



UP TO 2 X LONGER LIFETIME*



STANDARD FLOODED BATTERY VS GEL

Flooded battery	UNIBAT GEL 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	+++ weak self-discharge
Deep Discharge	
---	+++ can handle very deep discharges 90% with imperative charging afterwards
Maintenance	
water level to be checked and refilled regularly	+++ recombining gas technology that avoids any loss of water
Heat emission	
Strong	Weak less internal resistance
Storing	
needs a well ventilated area (Hydrogen release)	+++ very weak hydrogen release
Gas release	
high	weak in case of overload.
Transportation	
risky (risk of leaks)	+++ jellified Electrolyte
resistance to shocks and vibrations	
more fragile	+++ tightly fixed compressed sheets
Resistance to cold	
risk of freezing	+++ no liquids

* compared to most GEL batteries on the market



GEL Sealed battery for maximum security

↑ ↓ Higher charge/ discharge cycling capacity compared to other GEL batteries on the market x 2

90% High discharge rates (imperative recharging afterwards)

⌚ Longer lifespan than other GEL batteries x 2

🔋 Low self-discharge

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

📐 Possible inclination until 90° (on its length or width)

UNIBAT GEL Batteries

HIGH EFFICIENCY

Equipped with an advanced technological design (compressed high density pure lead grid, pure silica jellified, carbon additive ...) UNIBAT GEL 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 GEL batteries can accept discharge rates up to 100% to make the most of the available energy. Their weak self-discharge guarantees a stability over time.

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

