



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

Battery voltage	12 V	12 V	12 V	12 V
Nominal capacity 20 h (C20)	80 Ah	100 Ah	150 Ah	220 Ah
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	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	
	0,1 s	1600 A	1900 A	2860 A	4000 A
Maximum discharge current	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	

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			

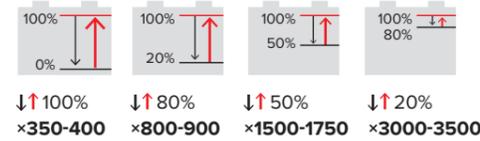
Dimensions (w x h x d)	368 × 219 × 172 mm	368 × 219 × 172 mm	522 × 221 × 240 mm	522 × 221 × 240 mm
Weight	27,5 kg	30 kg	45 kg	59 kg

Warranty

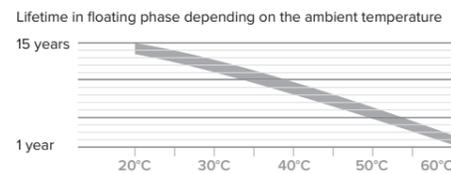
Period	2 years	2 years	2 years	2 years
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1,5 TO 2 X MORE CYCLES*



UP TO 2 X LONGER LIFETIME*



STANDARD FLOODED BATTERY VS 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

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)

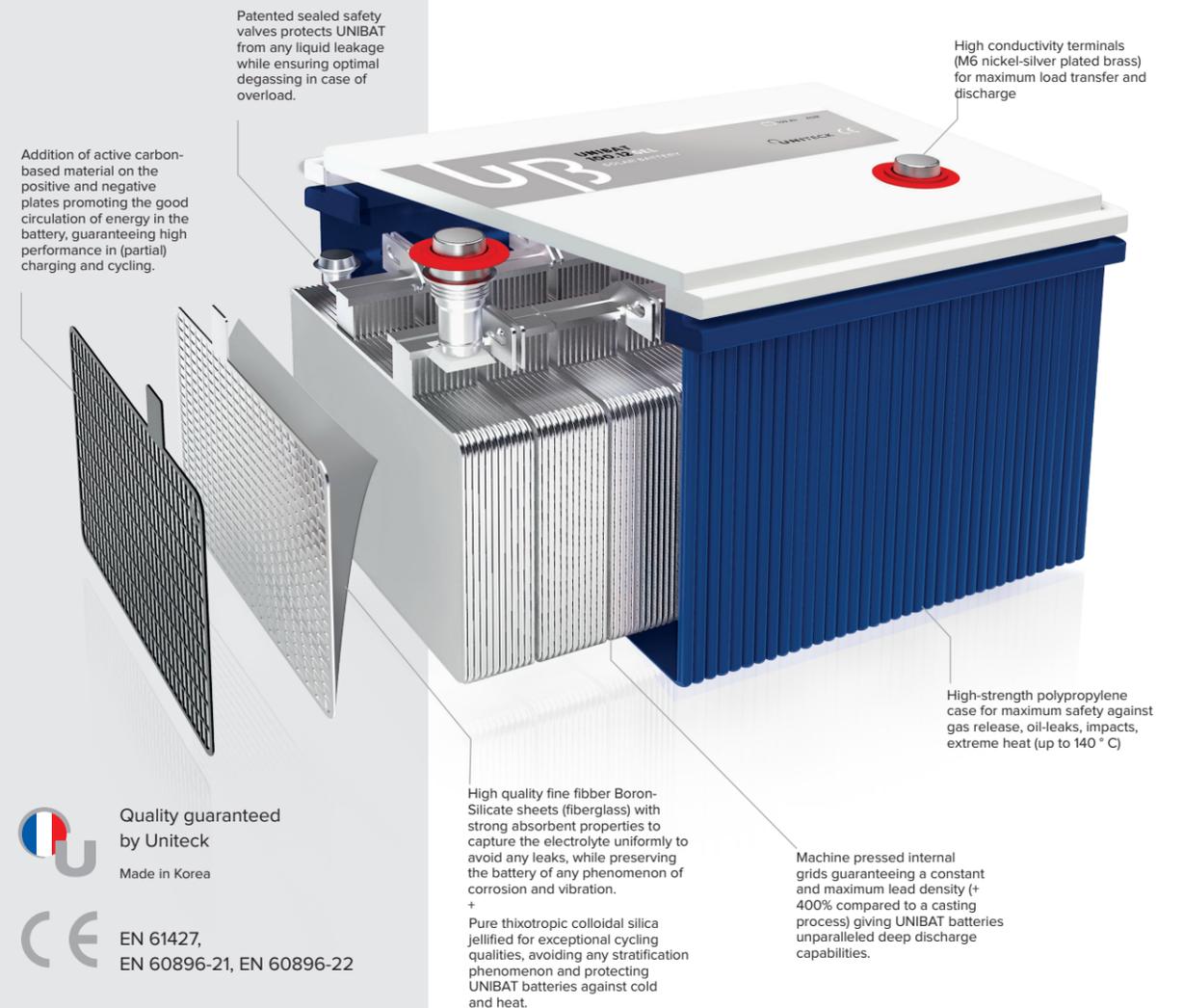
UNIBAT GEL Batteries

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.



Quality guaranteed by Uniteck

Made in Korea
 EN 61427, EN 60896-21, EN 60896-22