AGM SUPER CYCLE

A truly innovative battery, the AGM Super Cycle batteries from Victron Energy.



Bateria AGM Super Cycle

A truly innovative battery

The AGM Super Cycle batteries are the result of recent battery electrochemistry developments.
The paste of the positive plates is less sensitive to softening, even in case of repeated 100% discharge of the battery, and new additives to the electrolyte reduce sulfation in case of deep discharge.

Exceptional 100% depth of discharge (DoD) performance

Tests have shown that the Super Cycle battery does withstand at least three hundred 100% DoD cycles.
The tests consist of a daily discharge to 10,8V with I = 0,2C20, followed by approximately two hours rest in discharged condition, and then a recharge with I = 0,2C20.
The two hours rest period in discharged condition will damage most batteries within 100 cycles, but not the Super Cycle battery.

We recommend the Super Cycle battery for applications where an occasional discharge to 100% DoD, or frequent discharge to 60-80% DoD is expected.

Smaller and lighter

An additional advantage of the new chemistry is a slightly smaller size and less weight compared to our standard deep cycle AGM batteries.

Low internal resistance

The internal resistance is also slightly lower compared to our standard deep cycle AGM batteries.

Recommended charge voltages:

	Float Service	Cycle Service Normal	Cycle Service Fast recharge
Absorption		14,2 - 14,6 V	14,6 - 14,9 V
Float	13,5 - 13,8 V	13,5 - 13,8 V	13,5 - 13,8 V
Storage	13,2 - 13,5 V	13,2 - 13,5 V	13,2 - 13,5 V

Cycle life

≥ 300 cycles @ 100% DoD (discharge to 10,8V with I = $0,2C_{20}$, followed by approximately two hours rest in discharged condition, and then a recharge with I = $0,2C_{20}$)

≥ 700 cycles @ 60% DoD (discharge during three hours with I = $0,2C_{20}$, immediately followed by recharge at I = $0,2C_{20}$) ≥ 1000 cycles @ 40% DoD (discharge during two hours with I = $0,2C_{20}$, immediately followed by recharge at I = $0,2C_{20}$)

SPECIFICATIONS

Ref	V	Ah C5	Ah C10	Ah C20	L x A x Al (mm)	Weight (Kg)	CCA @0°F	RES CAP @80°F	Terminal
BAT412015080	12	13	14	15	151 x 100 x 103	4,1			Faston
BAT412025081	12	22	24	25	181 x 77 x 175	6,5			M5
BAT412038081	12	24	36	38	267 x 77 x 175	9,5			M5
BAT412060081	12	52	56	60	224 x 135 x 178	14	300	90	M5
BAT412110081	12	82	90	100	260 x 168 x 215	26	500	170	M6
BAT412112081	12	105	114	125	330 x 171 x 214	33	550	220	M8
BAT412117081	12	145	153	170	336 x 172 x 280	45	600	290	M8
BAT412123081	12	200	210	230	532 x 207 x 218	57	700	400	M8

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