

General Use AGM

VRLA AGM Series



GENERAL INFORMATION

UNIBAT General Use AGM series is designed for both stand-by or cyclic applications. It incorporates the latest AGM VRLA technology and excellent know-how. It is tested according to international standard IEC 60896-21, complies to defined requirements of IEC 60896-22, and classified for 6V models as "General Purpose" 6-9 Years & for 12V models as "Long Life" 10-12 Years Lifetime according to the EUROBAT 2015 guide.



The unique construction and sealing techniques of General Use AGM series guarantee leak proof operation in any position, with no adverse effect to capacity or service life.

Positive Plates : The positive plates are made of a grid frame of heavy duty lead-tin-calcium alloy and active material of porous lead dioxide.

Positive Plates : The negative plates are made of a grid frame of lead-tin-calcium alloy as well and with active material of spongy lead.

Separator : Plate separators are made of non-woven fabric of fine glass fibers and are chemically stable in the electrolyte sulfuric acid. The high porousness fully absorbs the electrolyte and prevents

shorting between positive and negative plates.

Terminals : The electrode terminals are protected due to both the structure that secures long adhesive - embedded paths and the use of strong epoxy material.

Electrolyte : They utilize an electrolyte suspension system consisting a high porosity, glass fiber material, which in conjunction with plates, totally absorbs the electrolyte.

Safety Valves : The incorporated built-in design controls gas generation and induces recombination of more than 99% of gases generated during float usage. Special safety release valves, designed to operate between 2 and 5 psi automatically reseal, preventing an excessive accumulation of gas inside the battery.

Container - Lid : The battery case is made of ABS material, is shock resistant and can be also available as flame retardant too.

APPLICATIONS

- UPS/EPS Systems
- Security & Fire Alarm Systems
- Emergency Lighting
- Telecom Power Supply
- Back up Power Supply
- Electronics
- Electric toys
- Medical Electronics
- Weighting Scales & Cash Registers

DESIGN FEATURES & BENEFITS

- Increase durability and deep cycle ability for heavy demand applications
- Low self-discharge
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Multi-position usage
- Very good power to weight ratios
- Very high lead purity rate (higher than 99.994%)
- ABS case and cover V0 upon request

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RANGE SUMMARY

UNIBAT GENERAL USE AGM SPECIFICATION TABLE											
BATTERY TYPE	V	AH	DIMENSIONS				max. Charge Current	Recom. max. Discharge Current (5 sec)	WEIGHT	TERMINALS	
			L	W	H	T.H				TYPE	LAYOUT
			(mm)								
		C20								6-9 Years Lifetime	
1.3-6	6	1,3	97	24	52	58	0,39	12	0,28	F1	C
3.2-6	6	3,2	134	34	61	67	0,96	32	0,61	F1	C
4.5-6	6	4,5	70	47	101	107	1,35	45	0,71	F1	B
7.0-6	6	7	151	34	94	100	2,10	70	0,98	F1	C
12.0-6	6	7	151	50	94	100	3,60	120	1,75	F1	C
		C20								10 Years Lifetime	
1.3-12	12	1,3	97	43	52	58	0,39	13	0,56	F1	E
2.3-12	12	2,3	178	35	61	67	0,69	23	0,88	F1	C
3.3-12	12	3,3	134	66	62	67	0,99	33	1,23	F1	E
5.0-12	12	5	90	70	101	107	1,50	50	1,56	F1, F2	C
6.0-12	12	6	151	50	96	101	1,80	60	1,80	F1	F
7.0-12	12	7	151	65	95	101	2,10	70	2,05	F1, F2	F
7.2-12	12	7,2	151	65	95	101	2,16	72	2,22	F1, F2	F
7.5-12	12	7,5	151	65	94	100	2,25	75	2,60	F2	F
9.0-12	12	9	151	65	95	101	2,70	90	2,60	F1, F2	F
12-12	12	12	151	98	95	101	3,60	120	3,46	F1, F2	F
18-12	12	18	181	76	167	167	5,40	180	5,03	M5	D
26-12	12	26	166	175	125	125	7,80	260	7,92	M5	D
		C10								10-12 Years Lifetime	
33-12	12	33	195	130	163	168	9,90	330	9,55	M6-B	C
40-12	12	40	197	165	170	170	12,00	400	12,52	M6-B	D
55-12	12	55	230	138	208	211	15,50	550	16,12	M6-B	C
65-12	12	65	350	167	179	179	19,50	650	20,45	M6-B	C
75-12	12	75	260	168	211	214	22,50	750	22,15	M6-B	C
80-12	12	80	350	166	179	179	24,00	800	23,05	M6-B	C
100-12	12	100	330	171	214	220	30,00	1.000	28,55	M6-B	C
120-12	12	120	407	176	225	225	36,00	1.200	34,00	M8	C
150-12	12	150	485	172	240	240	45,00	1.500	43,00	M8	C
200-12	12	200	522	240	218	223	60,00	2.000	58,10	M8	E

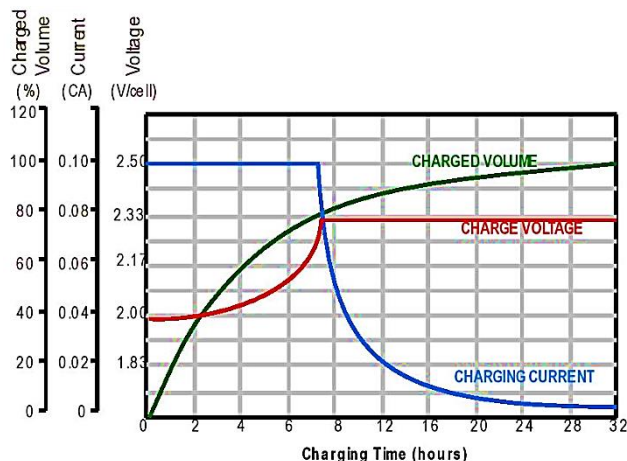
General Use AGM VRLA AGM Series



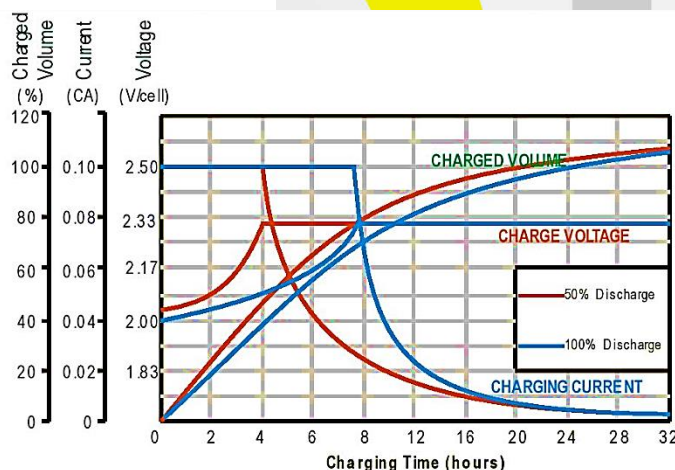
PERFORMANCE CURVES

Charge Characteristic Curves (25 °C)

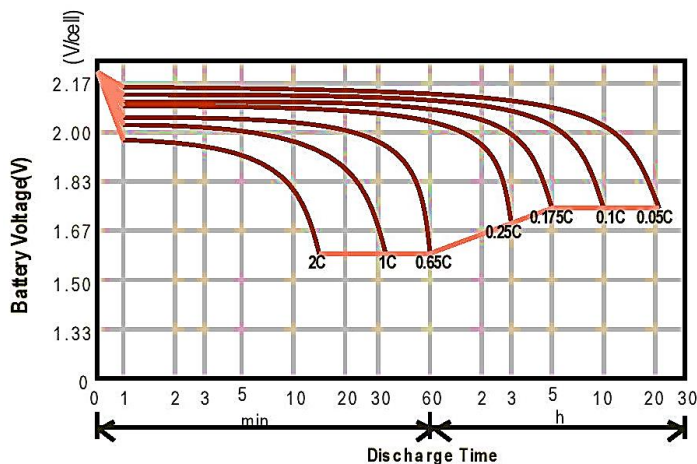
6-9 Y Lifetime



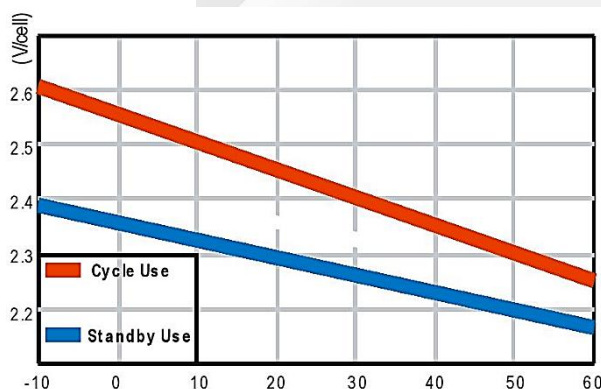
10-12 Y Lifetime



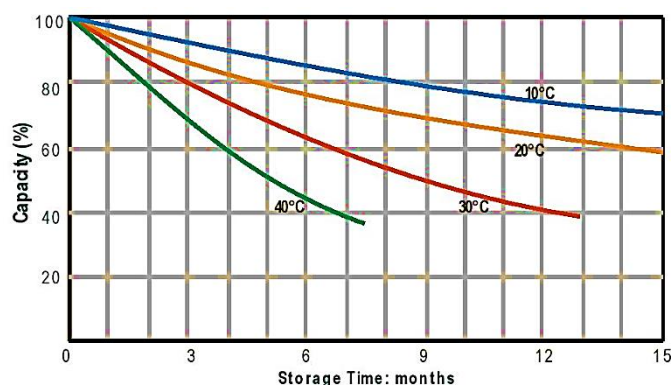
Discharge Characteristic Curves (25 °C)



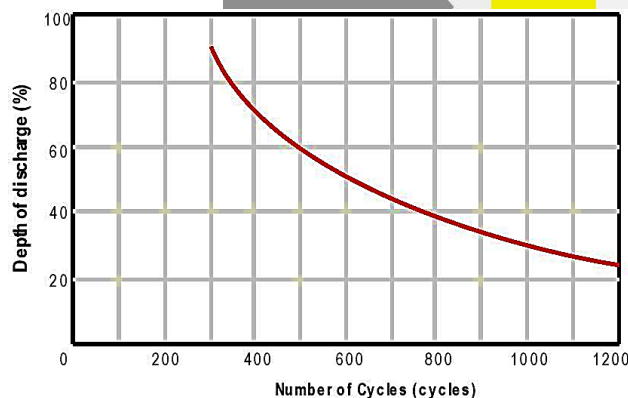
Charging Voltage vs Temperature



Self Discharge vs Capacity



Cycle Life vs D.O.D

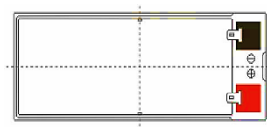
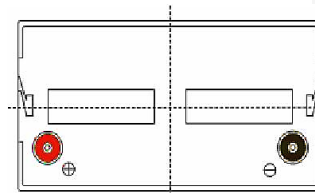
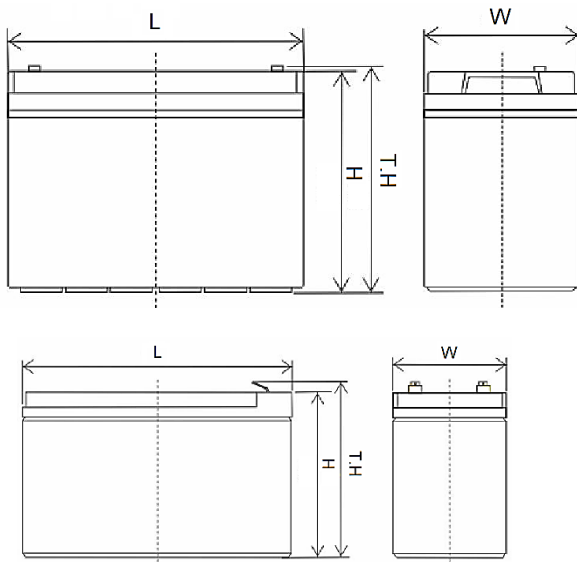


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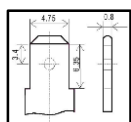


BATTERY DIMENSIONS

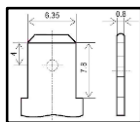


TERMINAL TYPES - LAYOUTS

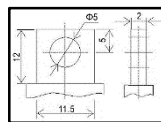
TERMINAL TYPES



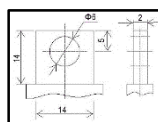
F1



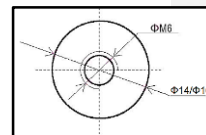
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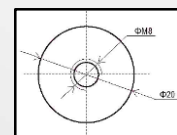
M5



M6



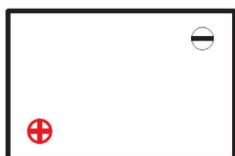
M6-B



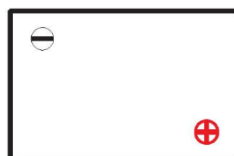
M8

TERMINAL LAYOUTS

A



B



C



D



E



F



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