

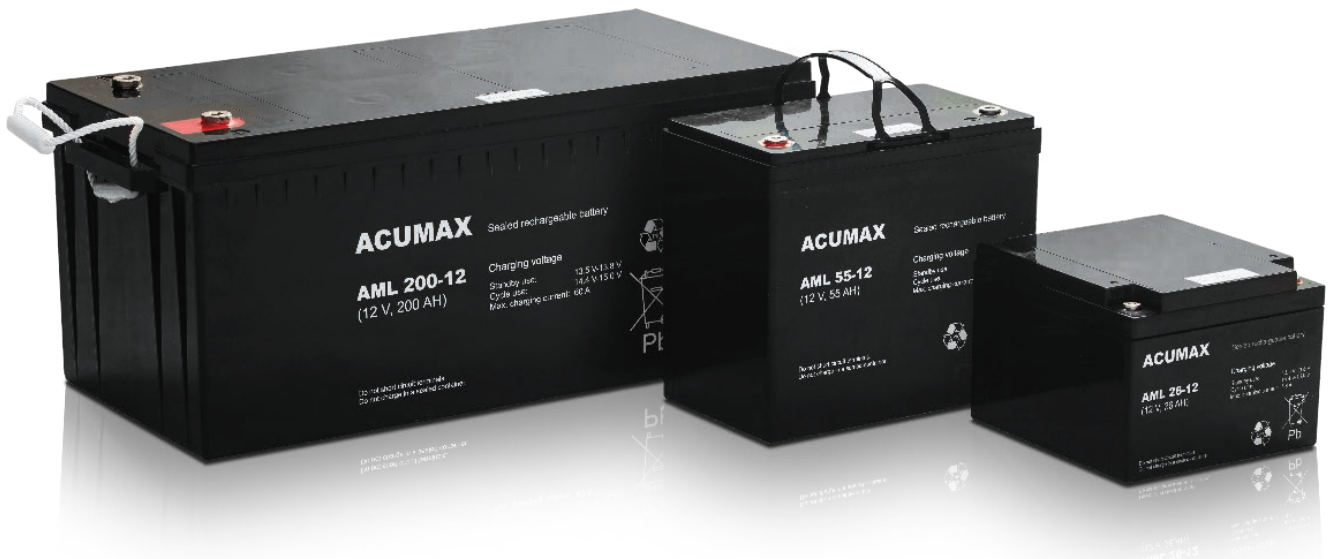
# ACUMAX®



Energy for life

Sealed, maintenance-free batteries and lead-acid cells with design life from **6 to over 18 years**. Ideal products for use in installations requiring reliability. As many as **800,000 ACUMAX®** batteries purchased by customers.

## ACUMAX® - EFFICIENT AND ECONOMIC SOLUTIONS



### Application

- UPS
- Alarm and fire alarm systems
- Telephone exchanges
- Telecommunication power plants
- GSM base stations
- Emergency power supply for security systems
- Emergency lighting
- Mobile and portable devices

### Characteristics

- Compact design 2V / 6V / 12V – Monobloc
- Maintenance-free (electrolyte replenishment)
- AGM and gel technology
- Design Life from 3 to over 18 years
- Capacity range from 0.8 to 3000 [Ah]
- Installation in 19 „and 23” cabinets (AFT series)
- Possibility of working in any position (apart from the clamps facing down)
- Wide range of working temperatures
- Slow self-discharge process
- High energy efficiency
- VdS certificate – AM 2.1 12, AM 7 12, AM 12 12, AM 18 12
- Manufacturer ISO 9001/14001

### Why ACUMAX® batteries?

- A wide range of **68** models to choose from
- **Real life 2 times higher** than that of cheaper products
- **High parameter recurrence** among models from the same production series
- **Long and reliable battery operation**
- Perfect for use in demanding UPS systems
- **Very good price / quality ratio**
- **Technical support** from experienced professionals
- Manufactured by taking into account **environmental protection**
- **NEW ON THE MARKET!** - **measurement** of voltage and internal resistance **of each battery BEFORE SHIPMENT!**



Help us restore balance in nature. Recycle your used battery.

## BATTERIES IN AGM TECHNOLOGY

Batteries made in the AGM **Absorbed Glass Mat** technology have an **electrolyte**, absorbed in **glass fiber separators** of great porosity, located between the plates. AGM batteries have a low internal resistance, which means higher voltage at the terminals and longer operating time, especially when discharged with high current. They are perfect for use in UPS, alarm systems, cash registers or emergency power supply systems.

**ACUMAX® AV SERIES** – design life\*: **6-9 years**. The series is designed to work in UPS. With standard dimensions, they are characterized by much lower internal resistance, thanks to which they have a higher capacity and very good high current and constant power discharge characteristics.

\* Design life determined according to the EUROBAT classification.

No.	Type	Un	C <sub>20</sub>	H	L	W	unit weight
		[V]	[Ah]	[mm]	[mm]	[mm]	[kg]
1	AV 9-12	12	9	94+8	151	65	2,70
2	AV 15-12		14	95+5	151	98	4,40
3	AV 22-12		22	167	181	76	6,90

**ACUMAX® AFT SERIES** – design life: **10-12 years**. Series designed for installation in 19" and 23" cabinets. Thanks to the lead-in polar terminals, they are easy to install and use. Ideal as a backup power source in telecommunication (48VDC) power plants.

No.	Type	Un	C <sub>10</sub>	H	L	W	unit weight
		[V]	[Ah]	[mm]	[mm]	[mm]	[kg]
1	AFT 55-12	12	55	222	277	106	17,3
2	AFT 75-12		75	187	564	114	26,0
3	AFT 100-12		100	235	507	106	30,8
4	AFT 125-12		125	288	550	110	39,0
5	AFT 150-12		150	288	550	110	47,5

**ACUMAX® AM SERIES** – design life: **6-9 years**. Batteries for cyclic and buffer operation (emergency power supply).

No.	Type	Un	C <sub>20</sub>	H	L	W	unit weight
		[V]	[Ah]	[mm]	[mm]	[mm]	[kg]
1	AM 1,3-6	6	1,3	52+5	97	25	0,30
2	AM 3,4-6		3,4	59+6	134	34	0,67
3	AM 4,5-6		4,5	102+4	70	47	0,82
4	AM 7,2-6		7,2	94+6	151	34	1,20
5	AM 12-6		12	94+5	151	50	1,84
6	AM 0,8-12	12	0,8	62	96	25	0,36
7	AM 1,3-12		1,3	53+6	97	43	0,56
8	AM 2,1-12		2,1	60+6	178	34	0,87
9	AM 3,4-12		3,4	60+6	134	67	1,30
10	AM 5-12		5,0	101+6	90	70	1,90
11	AM 7-12		7,0	94+8	151	65	2,20
12	AM 12-12		12,0	93+5	151	98	3,75
13	AM 18-12	18,0	167	181	76	5,60	



**ACUMAX® AML SERIES** – design life: **10-12 years**. Batteries designed for buffer operation (emergency power supply) in applications requiring a long service life.

No.	Type	Un	C <sub>20</sub>	H	L	W	unit weight
		[V]	[Ah]	height [mm]	length [mm]	width [mm]	
1	AML 7-12	12	7,0	102	151	65	2,40
2	AML 9-12		9,0	102	151	65	2,70
3	AML 12-12		12,0	98	151	98	4,02
4	AML 18-12		18,0	167	181	76	5,67
5	AML 26-12		26,0	125	175	166	9,30
6	AML 28-12		28,0	176	166	126	9,18
7	AML 35-12		35,0	170	197	131	10,50
8	AML 40-12		40,0	171	199	166	13,40
9	AML 50-12		50,0	171	199	166	14,80
10	AML 55-12		55,0	214	226	135	17,00
11	AML 65-12		65,0	179	350	167	20,90
12	AML 80-12		80,0	207	260	170	24,20
13	AML 100-12		100,0	222	330	172	31,30
14	AML 110-12		110,0	214	307	168	29,50
15	AML 120-12		120,0	224	408	177	37,00
16	AML 160-12		160,0	240	483	170	45,50
17	AML 200-12		200,0	224	522	238	61,50
18	AML 250-12		250,0	224	522	238	73,2

**ACUMAX® AXL SERIES** – design life: **over 12 years**. Cells with a voltage of 2 [V] and large capacitances, designed for systems requiring high load currents and long back-up times.

No.	Type	Un	C <sub>10</sub>	H	L	W	unit weight
		[V]	[Ah]	height [mm]	length [mm]	width [mm]	
1	AXL-100	2	100	214	170	72	5,8
2	AXL-200		200	350	170	110	12,7
3	AXL-300		300	350	170	150	17,7
4	AXL-400		400	350	210	175	24,3
5	AXL-500		500	348	240	175	29,0
6	AXL-600		600	350	300	175	35,7
7	AXL-800		800	350	410	175	50,4
8	AXL-1000		1000	350	475	175	60,0
9	AXL-1500		1500	349	403	354	96,0
10	AXL-2000		2000	349	490	350	121,0
11	AXL-3000		3000	347	709	350	180,0



## BATTERIES IN GEL TECHNOLOGY

Gel batteries have an **electrolyte** trapped in the form of a **gel**. They are resistant to deep discharges, vibrations and shocks, which is important in mobile and portable applications (cyclic work). They dissipate the heat generated with the flow of the current through the battery and thanks to this property they are perfect for outdoor work in large ambient temperature fluctuations. They are the optimal solution in various types of systems using energy from renewable sources.

### ACUMAX® AMG SERIES – design life: **10-12 years**.

A universal series designed for cyclical operation in difficult conditions, such as high ambient temperature, deep discharge and a large number of cycles. Also made for buffer operation (emergency power supply).

No.	Type	Un	C <sub>20</sub>	H	L	W	unit weight
		[V]	[Ah]	height [mm]	length [mm]	width [mm]	[kg]
1	<b>AMG 31-12</b>	12	30,0	167	195	130	10,7
2	<b>AMG 38-12</b>		38,0	170	197	165	13,5
3	<b>AMG 50-12</b>		50,0	211	229	138	16,6
4	<b>AMG 70-12</b>		70,0	214	259	168	23,0
5	<b>AMG 100-12</b>		100,0	218	330	173	31,0
6	<b>AMG 150-12</b>		150,0	240	485	170	44,2
7	<b>AMG 200-12</b>		200,0	224	522	240	62,9

**ACUMAX® OPzV SERIES** – design life for buffer work: **over 18 years**. 2V cells specially designed for deep discharges. Thanks to the positive tubular plate, they can withstand up to 2100 cycles, with a discharge depth of 80%.

No.	Type	Un	C <sub>10</sub>	H	L	W	unit weight
		[V]	[Ah]	height [mm]	length [mm]	width [mm]	[kg]
1	<b>40PzV200</b>	2	200	390	103	206	18,8
2	<b>50PzV250</b>		250	390	124	206	23,1
3	<b>60PzV300</b>		300	390	145	206	27,1
4	<b>50PzV350</b>		350	506	124	206	29,0
5	<b>60PzV420</b>		420	506	145	206	34,5
6	<b>70PzV490</b>		490	506	166	206	39,0
7	<b>60PzV600</b>		600	681	145	206	46,0
8	<b>80PzV800</b>		800	681	191	210	65,1
9	<b>100PzV1000</b>		1000	681	233	210	78,5
10	<b>120PzV1200</b>		1200	681	275	210	93,0
11	<b>120PzV1500</b>		1500	831	275	210	115,0
12	<b>160PzV2000</b>		2000	807	399	214	155,0
13	<b>200PzV2500</b>		2500	807	487	212	196,0
14	<b>240PzV3000</b>		3000	807	576	212	232,0



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