ALARMTEC

Energy for life

Sealed, maintenance-free lead-acid batteries with a design life of **3-5 years**.
ALARMTEC – ideal products for applications in security systems and fire protection.
Over 2 million ALARMTEC batteries purchased by customers!
ALARMTEC – **ECONOMIC SOLUTIONS**

Application

- Alarm and fire alarm systems
- Emergency lighting
- Cash registers and printers
- Telephone exchanges
- Emergency power supply for automation and security systems

Characteristics

- Sealed and maintenance-free
- Low internal resistance
- High concentration of energy
- Can work in any position (apart from the clamps facing down)
- A wide range of operating temperatures – from -15° C to 50° C
- Recommended operating temperature - 15° C to 25° C
- Design life: 3-5 years
- Capacity range: from 1.2 to 65 Ah
- Compact 12 V design – Monobloc

Why ALARMTEC batteries?

- Real life up to **50% longer** than that of cheaper products
- **Attractive price**
- **Fault-free** work
- Production based on the strictest **environmental standards**
- Manufacturer ISO 9001/14001
- **Technical support** from experienced professionals

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

BATTERIES IN AGM TECHNOLOGY

Batteries made in 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 times, especially when discharged with a high current.

No.	Type	Un	C_{20}	H height	L length	W width	unit weight
		[V]	[Ah]	[mm]	[mm]	[mm]	[kg]
1	**BP 1.2-12**	12	1,2	52+6	97	43	0,54
2	**BP 2.3-12**		2,3	66	178	35	0,88
3	**BP 3.6-12**		3,6	67	134	67	1,35
4	**BP 5-12**		5,0	101+6	90	70	1,80
5	**BP 7-12**		7,0	94+5	151	65	2,05
6	**BP 12-12**		12,0	95+6	151	98	3,20
7	**BP 18-12**		18,0	168	182	77	5,32
8	**BP 26-12**		26,0	125	166	175	7,8
9	**BP 40-12**		40,0	170	197	165	13,2
10	**BP 65-12**		65,0	178	348	167	19,2

CHARGING

- ALARMTEC batteries should be charged with constant voltage with the limitation of the initial charging current (IU characteristic)
- the initial charging current should not exceed 0.3 C* [A]
- the recommended initial charging current is 0.1 C [A]
- charging voltage:
  - **Buffer operation** – emergency power supplies: from 2.25 to 2.30 [V/cell], the recommended charging voltage is 2.275 [V/cell].

    EXAMPLE: for a 12 [V] battery, consisting of six cells, the charging voltage is between 13.5 and 13.8 [V].
  - **Cyclic operation** – the battery is the main power source: from 2.40 to 2.50 [V/cell], the recommended charging voltage is 2.45 [V/cell].

    EXAMPLE: for a 12 [V] battery, consisting of 6 cells, the charging voltage is between 14.4 and 15.0 [V].

*C - battery capacity

DEPTH OF DISCHARGE

For short back-up times of **up to 30 minutes**, the minimum final discharge voltage is **8 [V]**.

For times **longer than 30 minutes**, the minimum final discharge voltage is **10.5 [V]**.

SAFETY

Each maintenance free battery has a one-way, self-regulating release valve. This valve opens when the pressure inside the battery rises (for example when overcharged) and releases gases outside, protecting the container from bursting.

A gas recombination cycle is also used which prevents electrolyte loss and allows the batteries to be used in rooms without forced ventilation, that are occupied by people.

ALARMTEC battery life has been confirmed by years of use in hundreds of thousands of alarm installations.

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