OPTI AGM 12V 45Ah MAINTENANCE-FREE BATTERY

REGULAR RANGE

PRODUCT CODE
6AKUV045AG

EAN
5903760240721

CATEGORY
Maintenance-free batteries (AGM, GEL, LiFePO4)

SUBCATEGORY
OPTI AGM maintenance-free batteries

PRODUCT PAGE
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ABOUT THE PRODUCT

OPTI AGM 12V 45Ah MAINTENANCE-FREE BATTERY is a sealed lead-acid battery using AGM technology, intended primarily for standby operation and emergency power supply. Thanks to its construction with electrolyte immobilised in glass-fibre separators, it does not require electrolyte replenishment or typical maintenance activities.

The model is suitable for UPS systems, central-heating boilers and pumps, alarm control panels, surveillance systems, access control, automation, telecommunications and other equipment requiring stable voltage backup. The sealed construction reduces the risk of leakage, while automatic safety valves protect the enclosure against excessive pressure increase. The battery can operate in various positions and is resistant to vibration.

The AGM battery is intended mainly for installations in which it remains on standby and supplies energy during a mains power failure. It is not the best choice for intensive cyclic operation involving regular deep discharge and charging; therefore, its service life may be shorter in such applications. For correct operation, use a charger or regulator with settings suitable for AGM batteries and avoid overcharging and prolonged storage in a discharged state.

The battery’s rated voltage is 12 V, and its nominal capacity is 45 Ah. The maximum charging current is 12 A, while the maximum discharge current is 400 A for 5 seconds. The design life at 25°C is 5–8 years. The recommended operating temperature is 25°C ±3°C.

TECHNICAL SPECIFICATIONS

Electrical specifications	**Rated voltage**	12 V
	Nominal capacity	45 Ah
	Internal resistance (at 25°C)	8,6 mΩ
	Maximum charging current	12 A (the recommended charging current is 0,1C, i.e. 4,5 A)
	Maximum discharge current	400 A (for 5 seconds)
	Design life (at 25°C)	5 - 8 years

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GENERATED: 2026-10-30 15:20

TECHNICAL SPECIFICATIONS - CONTINUED

Operating and Charging Parameters	**Charging voltage (cyclic operation)**	14,4 V - 14,7 V DC
	Charging voltage (standby operation)	13,5 V - 13,8 V DC
	Self-discharge (at 25°C)	Remains 91% (after 3 months), 82% (after 6 months), 64% (after 12 months)
	Effect of temperature on capacity	102% (at 40°C), 100% (at 25°C), 85% (at 0°C), 65% (at -15°C)
Dimensions and Operating Environment	**Recommended operating temperature**	25°C ±3°C
	Operating temperature range	-15°C to +50°C (discharge), -10°C to +50°C (charging)
	Storage temperature range	-20°C to +50°C
	Dimensions (Length x Width x Height)	197 x 165 x 175 mm (total height 175 mm)
	Net weight	11,9 kg ±3%

PRODUCT GALLERY





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