AGM SECURITY 12V 40Ah VRLA MAINTENANCE-FREE BATTERY

REGULAR RANGE

PRODUCT CODE
6AKUYSE040

EAN
5904100454266

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

SUBCATEGORY
AGM LONG LIFE maintenance-free batteries

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ABOUT THE PRODUCT

The AGM SECURITY 40Ah 12VDC battery (model S12-40Ah) is a maintenance-free VRLA lead-acid battery manufactured using AGM technology, intended primarily for standby operation and emergency power supply systems. The electrolyte is immobilised in glass-fibre mat separators, and the construction uses multi-component lead-calcium alloys.

The sealed housing with self-regulating safety valves reduces the risk of electrolyte leakage. The reinforced Heavy Duty Grid prevents active-material shedding, supporting stable parameters and battery reliability. The product is maintenance-free, has a low self-discharge rate and can operate in various positions, except when completely inverted with the terminals facing downward.

The battery is used in UPS power supplies, industrial and domestic automation, alarm and fire-protection systems, CCTV monitoring, access-control systems, telecommunications systems, medical equipment, marine equipment, power tools, and electric toy vehicles and wheelchairs. The design life is 10 years for standby operation at a temperature of 25°C. The number of cycles depends on the depth of discharge: up to approximately 900–1000 cycles at 30% DOD, approximately 400 cycles at 50% DOD, and approximately 200 cycles at 100% DOD.

The housing is made of UL94-HB ABS plastic, optionally flame-retardant UL94-V0, and the battery is equipped with T14-type copper terminals. The product complies with IEC, BS, JIS and Eurobat standards and has CE and UL (MH62092) certificates.

TECHNICAL SPECIFICATIONS

Electrical specifications	**Nominal voltage**	12 V
	Nominal capacity	40 Ah
	Internal resistance (at 25°C)	10 mΩ±15%
	Maximum charging current	11,4 A
	Maximum discharge current	380 A (for 5 seconds)
	Design life (at 25°C)	10 years

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TECHNICAL SPECIFICATIONS - CONTINUED

Operating and Charging Parameters	**Charging voltage (at 25°C)**	14,5 V - 15,0 V
	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
	Terminal/connector type	T14
	Dimensions (Length x Width x Height)	197 x 165 x 170 mm (overall height 170 mm)
	Net weight	12 kg ±3%

PRODUCT GALLERY



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