GEL ULTRA SOLAR 12V 80Ah MAINTENANCE-FREE BATTERY [DEEP CYCLE, FOR CYCLIC OPERATION, PHOTOVOLTAICS, UPS]

REGULAR RANGE



PRODUCT CODE
6AKUGEL080

EAN
5904100452392

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

SUBCATEGORY
GEL ULTRA SOLAR maintenance-free batteries (gel)

PRODUCT PAGE
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ABOUT THE PRODUCT

The GEL ULTRA SOLAR 12V 80Ah MAINTENANCE-FREE BATTERY [DEEP CYCLE, FOR CYCLIC OPERATION, PHOTOVOLTAICS, UPS] is intended for standby and cyclic operation, including under deep-discharge conditions. It is suitable for photovoltaic systems, emergency power supplies UPS and inverters, as well as vehicles exposed to shocks and charging from pulsed sources, such as solar controllers.

The gelled electrolyte increases resistance to leakage compared with AGM technology. The battery is maintenance-free and does not require electrolyte replenishment or replacement. An automatic sealing system with pressure valves enables safe gas release in the event of excessive pressure increase, preventing damage to the casing.

The casing is made of ABS material, and the cells are made of copper. The battery can be used in telecommunications systems, CCTV, alarm and fire-protection systems, emergency lighting, wind and solar power plants, medical equipment and power tools. It is also used in electric, mobility, garden and water vehicles, camping trailers and industrial trucks.

The battery's design life is up to 12 years in standby operation at a temperature of 25 °C.

TECHNICAL SPECIFICATIONS

Electrical specifications	**Nominal voltage**	12 V
	Nominal capacity	80 Ah
	Internal resistance (at 25°C)	6 mΩ
	Capacity at discharge (25°C)	80 Ah (10h 10,8V), 55,5 Ah (3h 10,8V), 41 Ah (1h 10,5V)
	Min. safe discharge voltage	10,5 V - 10,8 V
	Recommended charging current	8 A
	Maximum charging current	15 A
	Maximum discharge current	700 A (for 5 seconds)
	Design life (at 25°C)	12 years
Operating and Charging Parameters	**FLOAT charging voltage (25°C)**	13,5 V - 13,8 V
	NORMAL charging voltage (25°C)	13,5 V - 13,8 V
	BOOST charging voltage (25°C)	14,5 V - 14,7 V
	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)	260±2 x 168±2 x 211±2 mm (total height 215±2 mm)
	Net weight	24,2 kg ±3%

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PRODUCT GALLERY









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