LiFePO4 12,8V 50Ah (50A) MAINTENANCE-FREE BATTERY + BMS

REGULAR RANGE

PRODUCT CODE
6AKLI05012

EAN
5904100452057

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

SUBCATEGORY
Maintenance-free batteries LiFePO4 (lithium)

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ABOUT THE PRODUCT

The LiFePO₄ battery 12,8 V 50 Ah with an integrated BMS is characterised by low weight, very low self-discharge and high cycle life — its designed service life is approximately 6000 cycles at 60% DoD. The BMS controls the charging and discharging processes and enables long-term storage without loss of nominal capacity.

The battery is intended for backup power systems, OFF-GRID installations and mobile installations in motorhomes, food trucks and boats. W the case of use on boats, for powering electronic devices, lighting and household appliances, a hermetic battery enclosure is required.

When powering devices with an electric motor, a DC fuse must be installed in the (+) battery circuit, with a rating not exceeding the maximum load current specified on the housing. Starting currents, even 5–10 times higher than the nominal operating current, may permanently damage the LiFePO₄ battery with BMS. The battery must be charged exclusively with a charger dedicated to LiFePO₄ batteries.

TECHNICAL SPECIFICATIONS

Electrical specifications	**Nominal voltage**	12,8 V
	Nominal capacity	50 Ah
	Voltage range	10,8 V - 14,4 V
	Cut-off voltage	9,4 V
	Maximum charging current	50 A
	Maximum discharge current	50 A
	Designed service life	3000 cycles (100% DoD), 4500 cycles (80% DoD), 6000 cycles (60% DoD)
	BMS protection	Yes

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TECHNICAL SPECIFICATIONS - CONTINUED

Operating and Charging Parameters	**Self-discharge**	<3% per month
Dimensions and Operating Environment	**Operating temperature range**	-20°C to +55°C (discharging), 0°C to +55°C (charging)
	Storage temperature range	-20°C to +45°C
	Dimensions (Length x Width x Height)	197 x 165 x 170 mm
	Connector type	T14 (screw terminal M6)
	Housing material	ABS
	Net weight	5,7 kg ±3% *(specified in the textual description as 5,6 kg)*
	Individual packaging dimensions	365 x 205 x 255 mm
	Individual packaging weight (gross)	12,2 kg

PRODUCT GALLERY





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