# LiFePO4 PRO SMART 12,8V 100Ah (150A) MAINTENANCE-FREE BATTERY + BMS + BLUETOOTH + HEATING MAT 260*169*211

REGULAR RANGE

PRODUCT CODE
**6AKLI10S12**

EAN
**5904100453443**

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

SUBCATEGORY
**LiFePO4 PRO maintenance-free batteries (lithium)**

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## ABOUT THE PRODUCT

The LiFePO4 PRO SMART 12,8V 100Ah (150A) battery is a maintenance-free solution with an integrated BMS, Bluetooth module and heating mat. Lithium-iron-phosphate technology ensures low weight, a very low self-discharge rate and a long service life of up to 6000 cycles at 60% DoD.

The integrated Bluetooth module enables the battery to connect to a smartphone and monitor key operating parameters using an application, including state of charge, remaining capacity, voltage, and charging and discharging current.

The heating mat activates automatically during charging at temperatures below 0°C, with a required charging current of at least 8A. This solution enables safe charging at low temperatures and helps maintain adequate battery performance.

The battery is intended for backup power systems, OFF-GRID installations, mobile vehicles such as motorhomes and food trucks, and boats. W the battery is used on a boat, a hermetically sealed battery enclosure is required. When powering devices with an electric motor, a DC fuse must be installed in the positive circuit, rated no higher than the maximum load current specified on the housing.

The maximum charging voltage is 14,6 V. After an extended period of inactivity, charging at a maximum current of 10 A is recommended. For starting outboard engines with an electric starter, the use of AGM batteries is recommended.

## TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| **Electrical specifications** | **Nominal voltage** | 12,8V |
| | **Nominal capacity** | 100Ah |
| | **Voltage range** | 10.8V ~ 14.6V |
| | **Maximum charging current** | 150A |
| | **Maximum discharging current** | 150A |

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## TECHNICAL SPECIFICATIONS - CONTINUED

| | | |
|---|---|---|
| **Operating features and construction** | **Technology** | LiFePO4 battery (lithium-iron-phosphate) with an integrated BMS and Grade A cells |
| | **Service life** | 3000 cycles (at 100% DoD), 4500 cycles (at 80% DoD), 6000 cycles (at 60% DoD) |
| | **Self-discharge rate** | <3% per month |
| | **Performance** | >98% |
| | **Smart functions** | Integrated Bluetooth module enabling parameter monitoring via a smartphone application, including state of charge, voltage, currents and temperature |
| | **Heating system** | Integrated heating mat providing battery self-heating; the function activates automatically during charging at temperatures below 0°C (minimum required charging current: 8A) |
| | **Connectors and housing** | M8 connector type, housing made of ABS material |
| | **Temperature ranges** | Charging: 0°C ~ 55°C, discharging: -20°C ~ 55°C, storage: -20°C ~ 45°C |
| | **Application and warnings** | Designed, among other applications, for emergency power supply systems (UPS), OFF-GRID installations, motorhomes, food trucks and boats. When used with outboard engines, a hermetically sealed enclosure protecting against water and a DC fuse on the positive wire are required. Use for engine starting is not recommended due to the risk of BMS damage caused by high starting current. |
| **Dimensions and logistics** | **Dimensions (H x W x L)** | 211 x 169 x 260 mm |
| | **Net weight** | 9,4 kg |
| | **Unit package dimensions** | 300 x 200 x 255 mm |
| | **Unit package weight** | 10,1 kg |

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## PRODUCT GALLERY







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