

Pylontech Li-ion Battery US5000

Product code: ME.Battery.Pylontech.03



Pylontech US5000 Lithium Iron Phosphate Battery

The US5000 lithium iron phosphate battery is a modern energy storage solution developed by Pylontech. This product provides reliable, high power for various devices and systems.

US5000 is a 48 V battery utilizing LFP technology with a capacity of 4.8 kWh. It includes a built-in Battery Management System (BMS) that monitors and controls the voltage, current, and temperature of the cells. Additionally, the BMS can balance the charging and discharging processes of the cells, extending the battery's life cycle.

Batteries can be connected in parallel in a single group, up to 16 units, allowing for increased capacity and longer power supply duration.

Product variants

Index	Price
Pylontech Li-ion Battery US5000 ME.Battery.Pylontech.03	Product prices only visible after login. If you do not have an account, please register.

Product description

Pylontech US5000 Lithium Iron Phosphate Battery

The US5000 lithium iron phosphate battery is a modern energy storage solution developed by Pylontech. This product

provides reliable, high power for various devices and systems.

US5000 is a 48 V battery utilizing LFP technology with a capacity of 4.8 kWh. It includes a built-in Battery Management System (BMS) that monitors and controls the voltage, current, and temperature of the cells. Additionally, the BMS can balance the charging and discharging processes of the cells, extending the battery's life cycle.

Batteries can be connected in parallel in a single group, up to 16 units, allowing for increased capacity and longer power supply duration.

Advantages of the Pylontech US5000 Battery:

Soft Start Function: Reduces inrush current during inverter startup from the battery.

Dual BMS Protection: Active protection at the battery management system level.

Automatic Address Setting: Enables the connection of multiple groups with automatic address setting.

RJ45 Signal Wake-Up: Supports wake-up signals of 5-12 V via the RJ45 port.

Battery Module Updates: Allows updates through CAN or RS485 communication from the top controller.

Depth of Discharge: Allows 95% depth of discharge, compliant with the latest Pylontech protocol.

Eco-Friendly and Safe: Non-toxic, non-polluting, environmentally friendly with a LiFePO4 cathode.

Advanced BMS: Provides protections against over-discharge, over-charge, over-current, and high/low temperatures.

Automatic Management: The management system automatically controls the charge and discharge status and the balance voltage of each cell.

Flexible Configuration: Multiple battery modules can be connected in parallel to increase capacity and power.

Quiet Self-Cooling Mode: Reduces system noise thanks to the self-cooling mode.

Low Self-Discharge: Can be stored for up to 6 months without charging, with no memory effect and excellent shallow charge and discharge performance.

Technical Specifications of Pylontech US5000:

Nominal Battery Voltage [V]: 48

Maximum Current [A]: 100

Battery Scalability: Up to 16 units

Battery Technology: Lithium-Ion

Usable Capacity [kWh]: 4.56

Battery Weight [kg] - 1 unit: 39.7

Battery Dimensions [mm] - 1 unit: 442 x 420 x 161

Communication Type: CAN, RS485

Product Warranty: 10 years

Application: Home Use