



# PYLONTECH

## US5000

### Low voltage lithium batteries

#### US5000 - 4.8 kWh Modules

Pylontech's US5000 lithium battery can be used to support reliable high power for various types of equipment and systems.

The US5000 battery has an integrated BMS that has protection functions including over-discharge, over-charge, over-current and high/low temperature.

#### Technical specifications:

- **Soft-Start** function capable of reducing the peak current when the inverter turns on with only the battery;
- The internal **molecular structure** of LiFePO4 batteries is **more stable** and **safe**;
- 95% **depth of discharge** (DOD), available for inverters aligned with the latest Pylontech protocol;
- **Double active protection at BMS level**;
- Multiple battery modules can be connected in parallel for expanding capacity and power;
- Possibility to operate in different temperature conditions;
- **10 year guarantee.**

#### Dimensions:

Width: 442 mm  
Height: 161 mm  
Depth: 420 mm  
Weight: 39.7 kg



SAVE YOUR PLANET  
[www.energyspa.com](http://www.energyspa.com)

# Technical data

## Lithium Battery

Model	US5000
Item code	90040084
<b>ELECTRICAL DATA</b>	
Cell technology	Li-ion (LFP)
Nominal voltage [V]	48
Nominal capacity [kWh/Ah]	4.8 / 100
Depth of discharge DOD [%]	95
Usable capacity [kWh/Ah]	4.56 / 95
Recommend charge current [A]	80 (*)
Configuration [max. modules in one battery group]	16 pcs
Charge voltage [V]	52.5 ~ 53.5
Discharge voltage [V]	43.5 ~ 53.5
<b>BUS</b>	
Communication Bus	RS485, CAN
<b>DIMENSIONS AND WEIGHT</b>	
Width [mm]	442
Height [mm]	161
Depth [mm]	420
Weight [kg]	39.7
<b>GENERAL DATA</b>	
Charge working temperature [°C]	0 ~ 50
Discharge working temperature [°C]	-10 ~ 50
Storage temperature [°C]	-20 ~ 45
Protection degree	IP20
Operation life at 25 °C [years]	15+
Life cycles	>6000 25°C
Certification	UN38.3, UN 3480
EMC Standard	IEC62619, IEC63056, UL1973, UL9540A, IEC61000-6-2, IEC61000-6-3, GR-1089, GB/T 2423, TÜV, CE, UL

(\*) The recommended and max. continuous operation current is for a battery cell temperature within 10 ~ 40°C to consider. Operating out of such temperature range will cause derating on operation current.



UN3090, GB/T 2423, GR-1089

**Energy S.p.A.**  
 Registered office:  
 Piazza Manifattura, 1  
 38068, Rovereto TN  
 Tel. +39 0464 350812 - Fax +39 0464 350512



www.energyspa.com  
 www.retiintelligenti.com

**Energy S.p.A.**  
 Operations/Warehouse:  
 Via Zona Industriale, 10  
 35020, Sant'Angelo di Piove di Sacco (PD) - Italy  
 info@energysynt.com  
 Tel. +39 049 2701296 - Fax +39 049 8599098