

## 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 LiFePO<sub>4</sub> 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



# Technical data

## Lithium Battery

Model	US5000C
<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	TÜV / CE / UN38.3 / UL / UN 3480
EMC Standard	IEC62619, IEC63056, UL1973, UL9540A, IEC61000-6-2, IEC61000-6-3, UN38.3, GR-1089, UN 3480, GB/T 2423

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