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

Technical data
Lithium Battery

Model		US5000C
ELECTRICAL DATA		
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
BUS		
Communication Bus		RS485, CAN
DIMENSIONS AND WEIGHT		
Width [mm]		442
Height [mm]		161
Depth [mm]		420
Weight [kg]		39.7
GENERAL DATA		
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		15+ years
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. continuos 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.