

# H48050

## High voltage lithium battery

### H48050 - 2.4 kWh Modules

Pylontech's H48050 lithium batteries represents the latest technological frontier for high voltage storage applications. The simplicity and modularity of the H48050, starting from 4.8 kWh for single-phase systems and 9.6 kWh for three-phase systems, make it an ideal component for creating storage systems of small and large capacities, which can be expanded according to current and future energy needs.

LiFePO4 battery technology also has the following **benefits**:

- **Longer Life cycle**, which exceeds 5000 cycles, corresponding to about 11 years of work, with an 80% end-of-life capacity;
- The internal **molecular structure** of LiFePO4 batteries is **more stable** and **safer**;
- Depth of discharge up to 90%;
- **Easy expansion** to increase the power of storage;
- A **Compact and modular design** for easy installation / upgrade;
- Ability to operate under different temperature conditions;
- **Advanced BMS** that allows you to report alarms in real time.



#### Dimensions:

Height: 100 mm

Width: 442 mm

Depth: 390 mm

Weight: 24 kg



**SAVE YOUR PLANET**

[www.energysynt.com](http://www.energysynt.com)

# Technical data

## Lithium battery

Model	H48050
<b>ELECTRICAL DATA</b>	
Cell Technology	Li-ion (LFP)
Voltage [V] (single module)	48
Current [A]	25 (nominal) - 50 (max)
Nominal Capacity [Wh] (single module)	2400
Operating Voltage [V]	45...54
DOD [%]	90 (10-90)
<b>BUS</b>	
Communication Bus	RS232, RS485, CAN
Communication protocol	YD/T 1363.3-2005
<b>DIMENSIONS AND WEIGHT</b>	
Height [mm]	100 (2U)
Width [mm]	442
Depth [mm]	390
Weight [kg]	24
<b>GENERAL DATA</b>	
Operation Life at 25 °C	15+ years
Life Cycles	>5000 60% EOL - 90% DoD
Backup time [Nominal power 500 W]	≥ 5 h
Duration of charge maintenance	6 Months with off battery
Discharge Working Temperature [°C]	0...50
Charge Working Temperature [°C]	0...50
Storage Temperature [°C]	-20...60
Protection Class	IP20
Earthquake Certificate	GR-1089
Transport Certificate	UN 3090 38.3
EMC	IEC 61000, EN 55022
Environmental Certification	GB/T 2423
Transfer Certificate	TÜV, CE, UN38.3, TLC

NOTE: Each 50 Ah module is easily installed in special Pylontech rack cabinets supplied on request by Energy Srl.

