

LEAPTON ENERGY

EH-B05

■ ■ ■ SWITCH YOUR LIFE
ENERGY STORAGE SOLUTIONS



◆ **Convenient**

Quick installation standard of 19-inch embedded designed module is comfortable for installation and maintenance. Support USB upgrade, wifi upgrade(optional), remote upgrade(Compatible with Sol-Ark inverter).

◆ **Safe and reliable**

Cathode material is made from LiFePO4 with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.

◆ **Intelligent BMS**

It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.

◆ **Eco-friendly**

The whole module is non-toxic, non-polluting and environmentally friendly.

◆ **Flexible configuration**

Multiple battery modules can be in parallel for expanding capacity and power.

◆ **Wide temperature**

Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.

MAIN PARAMETER

| Model | EH-B05-51.2/614 | |
|-----------------------------------------|--------------------------------|--------------|
| Cell Chemistry | LiFePO4 | |
| Module Energy (kWh) | 5.12 | |
| Module Nominal Voltage (V) | 51.2 | |
| Module Capacity (Ah) | 100 | |
| Battery Module Qty In Series (Optional) | 12 | |
| System Nominal Voltage (V) | 614.4 | |
| System Operating Voltage (V) | 480~700.8 | |
| System Energy (kWh) | 61.44 | |
| System Usable Energy (kWh) | 55.29 | |
| Charge/Discharge Current (A) | Recommend | 50 |
| | Max Current | 100 |
| Working Temperature (°C) | Charge: 0~55/Discharge: -20~55 | |
| Communication Port | CAN2.0/ RS485 | |
| Humidity | 5%~85%RH | |
| Altitude | ≤2000m | |
| IP Rating of Enclosure | IP20 | |
| Dimension (W/D/H,mm) | RACK | 551*590*2100 |
| Installation Location | RACK Mounting | |
| Storage Temperature (°C) | 0~35 | |
| Weight Approximate (kg) | 665 | |
| Recommend Depth of Discharge | 90% | |
| Cycle Life | 25±2°C,0.5C/0.5C, ≥6000 | |
| Warranty | 10years | |
| Certification | IEC62619/CE/UN38.3 | |

Note:

1. Value for Battery Cell Only (Depth of Discharge 90%). Actual usable energy at the AC output may vary by condition, such as the battery converter, inverter efficiency and temperature.

2. Lepton Energy recommends 50A@2.5kW for maximum battery module lifetime.Max dis-/charge current and power derating will occur related to temperature and SOC.



SYSTEM COMPONENTS

EH-B0P

High Voltage Battery cluster control box

| | |
|------------------------------------|---------------|
| Operating Voltage | 200-750Vdc |
| Recommend Charge/Discharge Current | 50A |
| Max.Charge/Discharge Current | 100A |
| Operating Temperature Range | -20~65°C |
| Ingress Protection | IP20 |
| Dimension (W/D/H) | 434*570*135mm |
| Weight Approximate | 12KG |



EH-B05

5.12 kwh battery module

| | |
|-------------------------------|---------------|
| Battery Type | LiFePO4(LFP) |
| Nominal Voltage | 51.2Vdc |
| Rated Capacity | 100Ah |
| Rated Energy | 5.12kWh |
| Max. Charge/Discharge Current | 100A |
| Charge Temperature | 0~55°C |
| Discharge Temperature | -20°C~55°C |
| Storage Temperature | 0°C~35°C |
| Ingress Protection | IP20 |
| Dimension (W/D/H) | 434*570*135mm |
| Weight Approximate | 49KG |



OPTIONS

OPTION 1



OPTION 2

