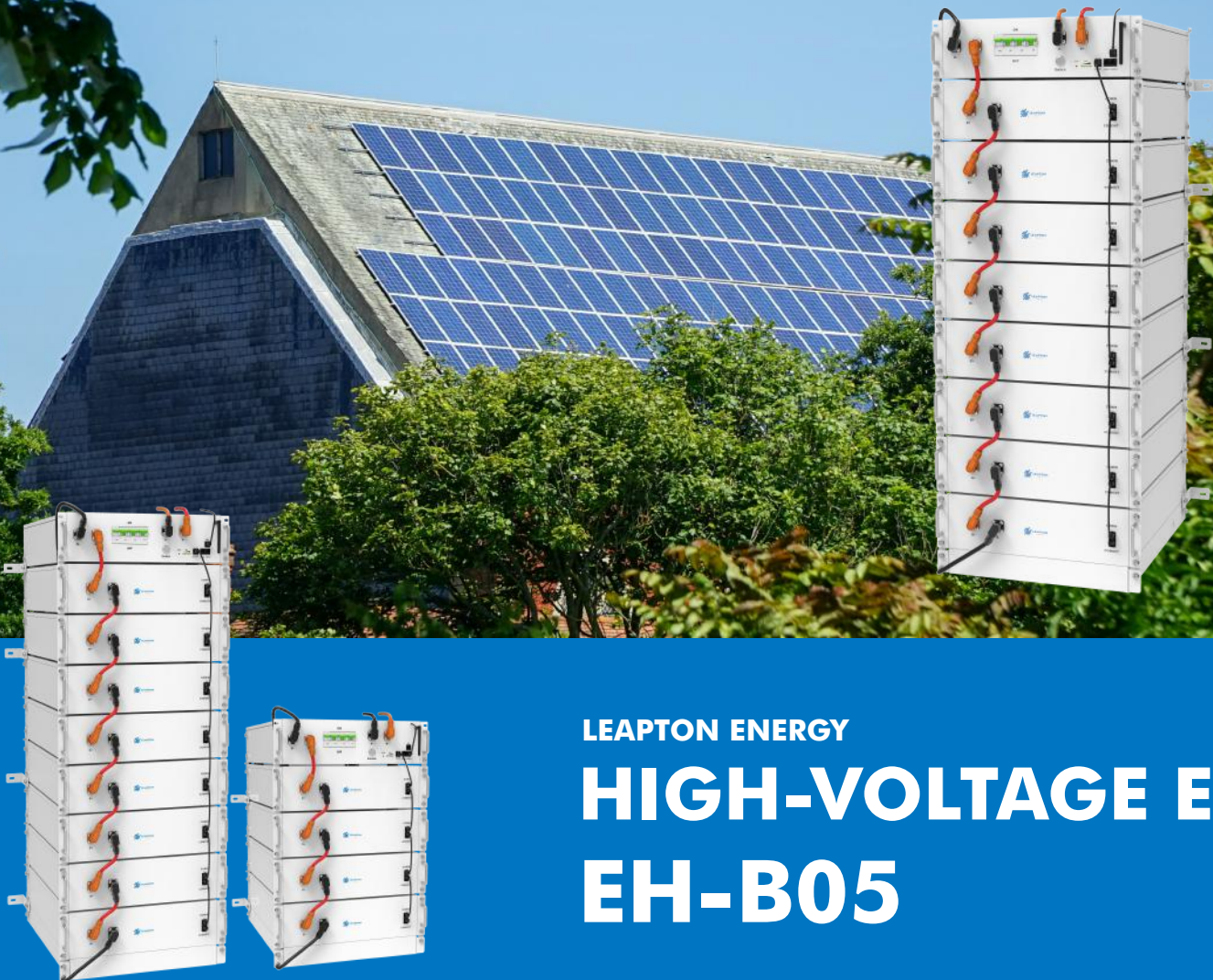




**LEAPTON**  
SOLAR

■■■ SWITCH YOUR LIFE  
**ENERGY STORAGE SOLUTIONS**



**LEAPTON ENERGY**

# **HIGH-VOLTAGE ESS EH-B05**



**Convenient**

Quick installation standard of 19-inch embedded designed module is comfortable for installation and maintenance. Support USB upgrade, wifi upgrade(optional), remote up grade(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.



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# EH-B05

|                                         |                                        |                 |                   |                   |                   |                   |                 |                   |                   |
|-----------------------------------------|----------------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-----------------|-------------------|-------------------|
| Model                                   | EH-B05-51.2/204.8                      | EH-B05-51.2/256 | EH-B05-51.2/307.2 | EH-B05-51.2/358.4 | EH-B05-51.2/409.6 | EH-B05-51.2/460.8 | EH-B05-51.2/512 | EH-B05-51.2/563.2 | EH-B05-51.2/614.4 |
| Cell Chemistry                          | LiFePO4                                |                 |                   |                   |                   |                   |                 |                   |                   |
| Module Energy (kWh)                     | 5.12                                   |                 |                   |                   |                   |                   |                 |                   |                   |
| Module Nominal Voltage (V)              | 51.2                                   |                 |                   |                   |                   |                   |                 |                   |                   |
| Module Capacity (Ah)                    | 100                                    |                 |                   |                   |                   |                   |                 |                   |                   |
| Battery Module Qty In Series (Optional) | 4                                      | 5               | 6                 | 7                 | 8                 | 9                 | 10              | 11                | 12                |
| System Nominal Voltage (V)              | 204.8                                  | 256             | 307.2             | 358.4             | 409.6             | 460.8             | 512             | 563.2             | 614.4             |
| System Operating Voltage (V)            | 179.2~233.6                            | 224~292         | 268.8~350.4       | 313.6~408.8       | 358.4~467.2       | 403.2~525.6       | 448~584         | 492.8~642.4       | 537.6~700.8       |
| System Energy (kWh)                     | 20.48                                  | 25.6            | 30.72             | 35.84             | 40.96             | 46.08             | 51.2            | 56.32             | 61.44             |
| System Usable Energy (kWh)              | 18.43                                  | 23.04           | 27.64             | 32.25             | 36.86             | 41.47             | 46.08           | 50.68             | 55.29             |
| Charge/Discharge Current (A)            | Recommend                              | 50              |                   |                   |                   |                   |                 |                   |                   |
|                                         | Max Current                            | 70              |                   |                   |                   |                   |                 |                   |                   |
| Working Temperature (°C)                | Charge: 0~55 / Discharge: -20~55       |                 |                   |                   |                   |                   |                 |                   |                   |
| Dimension [H*W*D] [mm]                  | 434*570*735                            | 434*570*870     | 434*570*1005      | 434*570*1140      | 434*570*1275      | 434*570*1410      | 434*570*1545    | 434*570*1680      | 434*570*1815      |
| Weight Approximate (kg)                 | 190                                    | 233             | 276               | 319               | 362               | 405               | 448             | 491               | 534               |
| Communication Port                      | CAN / RS485                            |                 |                   |                   |                   |                   |                 |                   |                   |
| Humidity                                | 5%~85%RH                               |                 |                   |                   |                   |                   |                 |                   |                   |
| Altitude                                | ≤2000m                                 |                 |                   |                   |                   |                   |                 |                   |                   |
| IP Rating of Enclosure                  | IP20                                   |                 |                   |                   |                   |                   |                 |                   |                   |
| Installation Location                   | Self-stacking installation             |                 |                   |                   |                   |                   |                 |                   |                   |
| Storage Temperature (°C)                | 0~35                                   |                 |                   |                   |                   |                   |                 |                   |                   |
| Cycle Life                              | 25 ± 2°C , 0.5C / 0.5C , EOL70% ≥ 6000 |                 |                   |                   |                   |                   |                 |                   |                   |
| Warranty                                | 10 years                               |                 |                   |                   |                   |                   |                 |                   |                   |
| Certification                           | IEC62619 / CE/ UN38.3                  |                 |                   |                   |                   |                   |                 |                   |                   |

## Note:

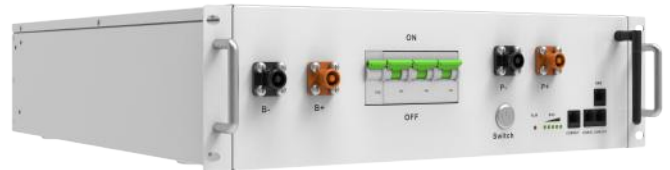
- Value for Battery Cell Only (Depth of Discharge 90%). Actual usable energy at the AC output may vary by condition, such as the battery converter, inverter efficiency and temperature.
- Leapton Energy recommends 50A@2.5kW for maximum battery module lifetime.Max dis-/charge current and power derating will occur related to temperature and SOC.



## 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          |



## PREVIEW





### Packing list of EH-B05



①



②



③

| NO. | Description                                      | Quanaity |
|-----|--------------------------------------------------|----------|
| ①   | M6x16 Combination screws                         | 4        |
| ②   | Serial cable/L165mm,Red,25mm <sup>2</sup>        | 1        |
| ③   | Communication cable for battery/L160mm,RJ45 Plug | 1        |

### Packing list of EH-B0P



①



②



③



④



⑤



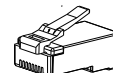
⑥



⑦



⑧



⑨

| NO. | Description                                                     | Quanaity |
|-----|-----------------------------------------------------------------|----------|
| ①   | M6x16 Combination screws                                        | 6        |
| ②   | Positive connector/Orange                                       | 1        |
| ③   | Negative connector/Black                                        | 1        |
| ④   | Power cable-positive to Battery/L190mm,Red,25mm <sup>2</sup>    | 1        |
| ⑤   | Power cable-negative to Battery/L2265mm,Black,25mm <sup>2</sup> | 1        |
| ⑥   | Communication cable for battery/L160mm,RJ45 Plug                | 1        |
| ⑦   | Communication cable to PCS/L3000mm,RJ45 Plug                    | 1        |
| ⑧   | Ground wire/L1000mm,yellow green,6mm <sup>2</sup>               | 1        |
| ⑨   | Teminal resistor                                                | 2        |