



## Introduction

The R-BOX is a state-of-the-art home energy storage system solution. It has a total usable energy capacity of 10kWh. Product features include quick and easy installation, a compact and elegant home style design and great extensibility. The R-BOX can provide smart configurable backup power during grid outages and power smart homes with solar energy, day and night.

## Technical Specifications

| Model                             | R-BOX                                 |
|-----------------------------------|---------------------------------------|
| Total capacity                    | 10.24kWh                              |
| Usable capacity                   | 9.22kWh                               |
| Chemistry                         | Lithium iron phosphate (LFP)          |
| Nominal voltage                   | 51.2V                                 |
| Max. charge/<br>discharge current | 100A                                  |
| Communication                     | CAN, RS485                            |
| Certificate                       | UL1973, CE, UN38.3                    |
| Operating Temperature             | Charge: 32~113°F, Discharge: 14~122°F |
| Altitude                          | <6562ft (2000m)                       |

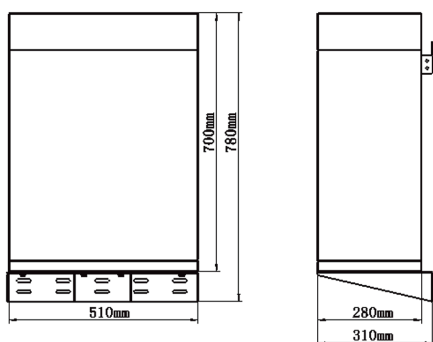
| Mechanical Design  | Parameter  |
|--------------------|--|
| Dimensions (L*W*H) | 11.0 * 20.1 * 27.5 inch (30.8 inch H w/ holder)<br>280 * 510 * 700 mm (780 mm H w/ holder) |
| Weight             | 264lbs   |
| Mount              | Wall / Floor mount   |
| Enclosure rating   | IP20   |
| Enclosure material | Cool-rolled steel  |
| Cooling            | Natural convection   |
| Warranty           | 6000 cycles or 10 years  |

## Designed for two E-BOX-48100R battery models

### 3D image

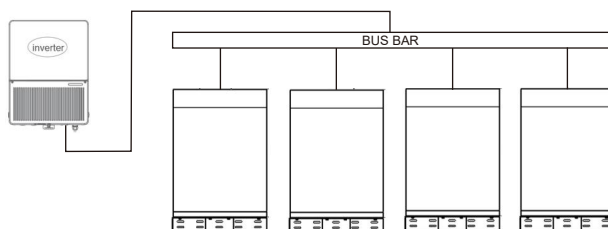


### Mechanical Drawing



### Battery Expansion

PYTES Home Energy Storage System can connect up to 4 pcs R-BOX directly. Please refer to a HUB solution for bigger expansion demands.





## Introduction

E-BOX series, the new generation LFP battery for home energy storage system. It provides safe, well-designed and high-performance standard LFP battery pack for you. The battery pack is compact, easy to install, free of maintenance, and could be deployed to the building block of energy storage system by being assembled in parallel. It is widely applied in home applications, small commercial and industrial energy storage system as well as Telecom stations.

## Features



### Self-Consumption

store excess energy generated by solar panels and use it whenever needed



### Back-Up Power Supply

provide emergency power supply during grid outage



### Electricity Bills Reduction

charge the battery during off-peak period and discharge the battery during peak period



### Smart Energy Management

measure, monitor and manage the system in real-time  
optimize the system life span by intelligent algorithms



### Longest Life and Highest Safety

more than 6000 cycles @90%DOD



### Wide Compatibility

compatible with 16 mainstream inverters in the market

**10 Years Warranty**



**UN38.3**



# Technical Specifications

| Battery Model           | E-BOX-48100R  |
|-------------------------|---|
| Chemistry               | LFP   |
| Nominal Voltage         | 51.2V   |
| Voltage Range           | 47.5V-57.6V   |
| Nominal Capacity        | 100Ah   |
| Nominal Energy          | 5.12kWh   |
| Unit Dimension          | L440mm* W620mm* H117mm (2.6U)                                   |
| Unit Weight             | 51kg  |
| Standard Charge Current | 50A   |
| Maximum Charge Current  | 50A   |
| Standard Discharge      | 50A   |
| Maximum Discharge Rate  | 50A   |
| Round-Trip Efficiency   | ≥95%  |
| Communication Protocol  | RS232, RS485, CAN   |
| Cycle Life              | ≥6000cycles   |
| Calendar Life           | ≥10years  |
| Operating Temperature   | -10°C~50°C  |
| Connect style           | Parallel  |
| Storage Temperature     | Within 1month: -20~55°C, 1-3months: 0~35°C, 3-12months: 20~25°C |

# Operation Panel

