

# power B(⚡)Xenergy

**PB-48100 LITHIUM (3U)**  
**48V 100Ah**  
**LiFePO4**  
**5.12 kWh**

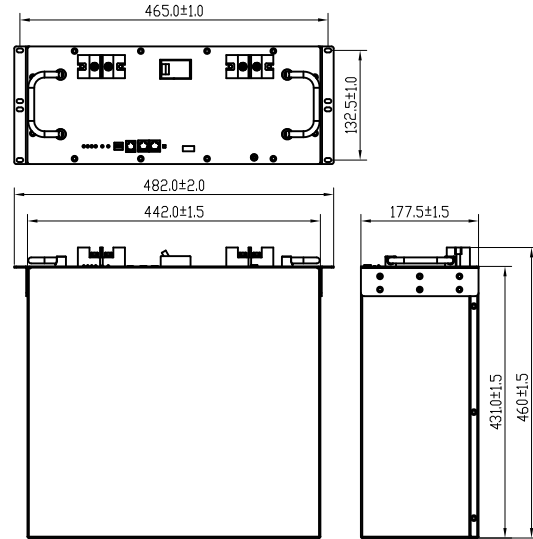


## Features

- Intra-system balancing
- Flame retardant system to UL94V0
- Good high temperature performance
- High cycle times and long service life
- Safe Lithium Iron Phosphate Technology
- Thousands of cycles, under normal conditions
- High energy density and conversion efficiency
- Environmental Friendly without any heavy metals
- Complete with Battery Management System built-in
- Can use most standard VRLA chargers for this system
- Low self discharge rate of 2 years before required recharging
- Easy installation, can be in 19-inch standard cabinet or be wall-mounted
- Built-in automatic protection for over-charge, over-discharge & over-temperature conditions

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**Dimensions-mm**



**Specifications**

|                                   | MODEL                           | PB4850  | PB4880           | PB48100          | PB48120          | PB48150          | PB48200     |
|-----------------------------------|---------------------------------|---|------------------|------------------|------------------|------------------|-------------|
| <b>Electrical Characteristics</b> | Rate voltage (Vdc)              | 51.2  | 51.2             | 51.2             | 51.2             | 51.2             | 51.2        |
|                                   | Rate capacity (AH)              | 50  | 80               | 100              | 120              | 150              | 250         |
|                                   | Energy storage (KWH)            | 2.56  | 4.096            | 5.12             | 6.1444           | 7.68             | 10.24       |
|                                   | Cycle life                      | ≥6000 cycles to 85% DOD                                   |                  |                  |                  |                  |             |
|                                   | Months sel discharge            | ≤2%   |                  |                  |                  |                  |             |
|                                   | Efficiency of charge            | 100% at 0.2C  |                  |                  |                  |                  |             |
|                                   | Efficiency of discharge         | 96-99 % at 1C   |                  |                  |                  |                  |             |
| <b>Standard Charge</b>            | Charge voltage                  | 58.4  |                  |                  |                  |                  |             |
|                                   | Charge mode                     | 0.2 C to 58.4V, then 58.4V, charge current 0.02C (CC/CV)  |                  |                  |                  |                  |             |
|                                   | Charge current (A)              | 10  | 16               | 20               | 24               | 30               | 40          |
|                                   | Max. Charge current (A)         | 50  | 80               | 100              | 120              | 120              | 200         |
|                                   | Charge cut-off voltage (VDC)    | 58.4  |                  |                  |                  |                  |             |
| <b>Standard Discharge</b>         | Continous current (A)           | 50  | 80               | 100              | 120              | 120              | 200         |
|                                   | Discharge cut-off voltaje (VDC) | 44.8  |                  |                  |                  |                  |             |
| <b>Environmental</b>              | Charge temperature              | 0°C to 45°C (32°F to 113°F) @60°± 25% Relative Humidity   |                  |                  |                  |                  |             |
|                                   | Discharge temperature           | -20°C to 60°C (-4°F to 140°F) @60°± 25% Relative Humidity |                  |                  |                  |                  |             |
|                                   | Storage temperature             | 0°C to 40°C (32°F to 104°F) @60°± 25% Relative Humidity   |                  |                  |                  |                  |             |
| <b>Mechanical</b>                 | IP class                        | IP60  |                  |                  |                  |                  |             |
|                                   | Material system                 | LiFePO4   |                  |                  |                  |                  |             |
|                                   | Case material                   | Metal   |                  |                  |                  |                  |             |
|                                   | Case Type                       | Rack/Wall Mount   |                  |                  |                  |                  |             |
|                                   | Pack Dimensions L*W*H (mm)      | 451*450 (492)*177   | 465*440(482)*191 | 490*440(482)*191 | 490*440(482)*191 | 490*442(484)*250 | 490*442*250 |
|                                   | Package Dimension L*W*H (mm)    | 545*525*255   | 560*515*265      | 585*515*345      | 585*515*345      | 575*515*325      | 600*600*325 |
|                                   | Net Weight (kg)                 | 39  | 39.9             | 69.7             | 72               | 79               | 79          |
|                                   | Gross Weight (kg)               | 42  | 42.5             | 72               | 76               | 82               | 83.2        |
|                                   | Terminal                        | M8  |                  |                  |                  |                  |             |
|                                   | Protocol (Optional)             | CANBus/RS485/RS232  |                  |                  |                  |                  |             |
|                                   | SOC (Optional)                  | LED/LCD   |                  |                  |                  |                  |             |
| The quality assurances period     | 60 months                       |   |                  |                  |                  |                  |             |