



**5.12kWh/10.24kWh/15.36kWh**  
100E / 200E / 300E

Discover the power of efficiency and flexibility with BSLBATT's Rack Batteries, featuring lithium iron phosphate technology at its core. Designed to excel in applications with limited space or where seamless integration of multiple batteries into a single system is essential, our Rack Batteries redefine energy storage solutions for diverse needs.



Module design,  
flexible expansion



Tier One, A+ LiFePO4  
cell composition



Stackable with  
flexible brackets



Matching with leading  
inverters



6000 cycles @ 80% DOD



Residential & commercial  
/ industrial use

# Specification

51.2V 5.12kWh/10.24kWh/15.36kWh Battery

| Item                                 | General Parameter                                      |                    |                     |                     |
|--------------------------------------|--|--------------------|---------------------|---------------------|
|                                      | B-LFP48-100E 3U  | B-LFP48-200E       | B-LFP48-300E        |                     |
| Battery Type                         | LiFePO4  | LiFePO4            | LiFePO4             |                     |
| Nominal Voltage (V)                  | 51.2   | 51.2               | 51.2                |                     |
| Nominal Capacity (wh)                | 5120   | 10240              | 15360               |                     |
| Usable Capacity (wh)                 | 4608   | 9216               | 13824               |                     |
| Cell & Method                        | 16S1P  | 16S2P              | 16S1P               |                     |
| Dimension(mm)(W*H*D)                 | 538*483(442)*136                                       | 590*483(442)*222   | 780*483(442)*222    |                     |
| Weight(Kg)                           | 46   | 95                 | 130                 |                     |
| Discharge Voltage (V)                | 47   |                    |                     |                     |
| Charge Voltage (V)                   | 55   |                    |                     |                     |
| Charge                               | Rate. Current / Power                                  | 50A / 2.56kW       | 100A / 5.12kW       | 150A / 7.68kW       |
|                                      | Max. Current / Power                                   | 80A / 4.096kW      | 160A / 8.192kW      | 240A / 12.288kW     |
|                                      | Peak Current / Power                                   | 110A / 5.632kW     | 210A / 10.752kW     | 310A / 15.872kW     |
| Discharging                          | Rate. Current / Power                                  | 100A / 5.12kW      | 200A / 10.24kW      | 300A / 15.36kW      |
|                                      | Max. Current / Power                                   | 120A / 6.144kW, 1s | 220A / 11.264kW, 1s | 310A / 15.872kW, 1s |
|                                      | Peak Current / Power                                   | 150A / 7.68kW, 1s  | 250A / 12.80kW, 1s  | 400A / 20.48kW, 1s  |
| Communication                        | RS232, RS485, CAN, WIFI(Optional), Bluetooth(Optional) |                    |                     |                     |
| Depth Of Discharge(%)                | 90%  |                    |                     |                     |
| Expansion                            | up to 63 units in parallel                             |                    |                     |                     |
| Working Temperature                  | Charge   | 0~55°C             |                     |                     |
|                                      | Discharge  | -20~55°C           |                     |                     |
| Storage Temperature                  | 0~35°C   |                    |                     |                     |
| Short Circuit Current /Duration Time | 350A, Delay time 500μs                                 |                    |                     |                     |
| Cooling Type                         | Nature   |                    |                     |                     |
| Protection Level                     | IP20   |                    |                     |                     |
| Monthly Self-discharge               | ≤ 3%/month   |                    |                     |                     |
| Humidity                             | ≤ 60% ROH  |                    |                     |                     |
| Altitude(m)                          | < 4000   |                    |                     |                     |
| Warranty                             | 10 Years   |                    |                     |                     |
| Design Life                          | > 15 Years (25°C / 77°F)                               |                    |                     |                     |
| Cycle Life                           | > 6000 cycles, 25°C                                    |                    |                     |                     |
| Certification & Safety Standard      | UN38.3<br>B-LFP48-200E: UN38.3, IEC62619               |                    |                     |                     |

Note: Customized models and adjusted parameters are available upon request.



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