

## 12V 100AH

Z-BOX | LITHIUM POWER BANK

**BEST REPLACEMENT  
OF LEAD ACID &  
TUBULAR BATTERY**



MADE IN VIETNAM

RGB STATUS INDICATOR

## SPECIFICATION

| PERFORMANCE CHARACTERISTICS   | TYPICAL          |
|-------------------------------|------------------|
| ✓ CAPACITY                    | 100AH            |
| ✓ VOLTAGE (NOMINAL)           | 12.8V            |
| ✓ DISCHARGE ENERGY            | 1280WH           |
| ✓ MAX CONT. DISCHARGE CURRENT | @ 25°C 80A       |
| ✓ MAX PULSE DISCHARGE CURRENT | @ 25°C, 10S 120A |
| ✓ MAX CONT. CHARGE CURRENT    | @ 25°C 80A       |
| ✓ MAX PULSE CHARGE CURRENT    | @ 25°C, 10S 120A |
| ✓ DC RESISTANCE               | ≤10MΩ            |
| ✓ SPECIFIC ENERGY             | ≤140W/KG         |

| OPERATION RANGE             | TYPICAL |
|-----------------------------|---------|
| ✓ FULL CHARGED VOLTAGE      | 14.6V   |
| ✓ DISCHARGE CUT-OFF VOLTAGE | 10V     |

✓ OPERATE TEMPERATURE RANGE

CHARGE: 0°C~55°C;  
DISCHARGE: -20°C~55°C;  
STORAGE: -20°C~45°C

\*CYCLE LIFE TO 80% OF RATED CAPACITY



2 YEARS FREE & 3 YEARS SERVICE

**European Standard Design & Engineering**

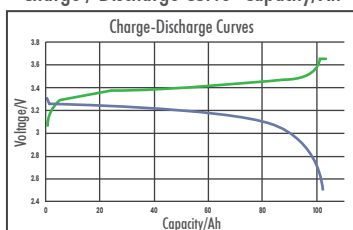
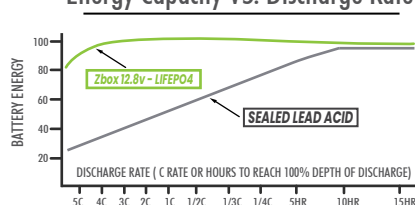
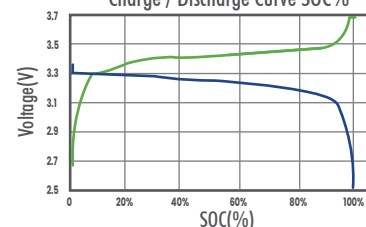
 BUILT-IN SAFETY  
PROTECTION

 POWERFUL  
AND RELIABLE

 SUPPORT IN PARALLELS  
& SERIES CONNECTION

 ENVIRONMENTAL  
FRIENDLY

| MODEL              |                 | Z-BOX EUROPEAN 100AH-12.8V                                |
|--------------------|-----------------|-----------------------------------------------------------|
| Battery type       |                 | LiFePO4                                                   |
| Nominal Capacity   |                 | 100Ah                                                     |
| Nominal Voltage    |                 | 12.8 V                                                    |
| Operating Voltage  |                 | 11.2 V ~ 14.6 V                                           |
| Nominal Energy     |                 | 1.28kWh                                                   |
| Scalability        |                 | Max. 4 units in series(51.2V) & Max. 10 units in parallel |
| Charge Current     | Max. Continuous | 100A                                                      |
|                    | Peak            | 200A (10 sec)                                             |
| Discharge Current  | Max. Continuous | 100A                                                      |
|                    | Peak            | 200A (10 sec)                                             |
| Cell Configuration |                 | Prismatic, IP4S                                           |

**Charge / Discharge Curve Capacity/Ah**

**Energy Capacity VS. Discharge Rate**

**Charge / Discharge Curve SOC%**


|                              |                                                                   |
|------------------------------|-------------------------------------------------------------------|
| Recommend Depth Of Discharge | 80% DoD                                                           |
| Dimension W x D x H (mm)     | 310 x 160 298                                                     |
| Weight (kgs)                 | 11                                                                |
| Case Material                | ABS+PC                                                            |
| LED Indicator                | LED (SOC, working, protection) & Buzzer                           |
| Communication                | Hardware BMS                                                      |
| IP Rating of Enclosure       | IP54                                                              |
| Operating Temperature        | Charge : 0~55°C, Discharge : -20°C~55°C                           |
| Storage Temperature          | 0~35°C                                                            |
| Relative Humidity            | 95%                                                               |
| Altitude                     | ≤2000m                                                            |
| Life Cycle                   | ≥8000 (25°C ± 2°C, 0.2 Charging and Discharging, 80%DOD, 70%EOL ) |
| Certification                | UN38.3, MSDS                                                      |
| Installation                 | Floor-Mounted, Stack-Mounted                                      |

