



LIVEN LVIF Series-LiFePO₄

- > High performance, completely maintenance-free, low self-discharge
- > Floating & standby use: up to 10 years
- > 100% precise quality testing, stable quality and high reliable performance
- > Uniform output voltage in all the discharge curve
- > Provide full nominal capacity, even at high currents
- > Energy density: up to 130Wh/kg
- > Capacity density: up to 145Ah/kg
- > Suitable for standby power and energy storage power use
- > Long storage time
- > Cycle use: Up to 2000 cycles at 100% DOD

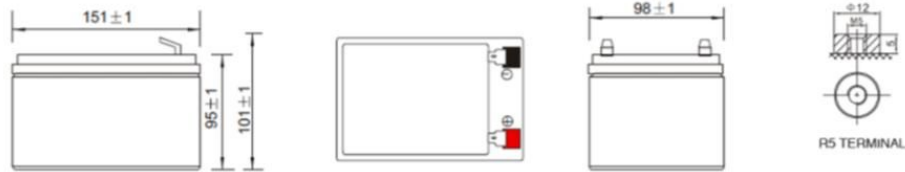
Application:

- > Telecommunications
- > Uninterruptable Power Supply (UPS)
- > DC power supply
- > Electric Power System (EPS)
- > Emergency backup power supply
- > Wheelchairs and Scooters
- > Golf trolleys and Golf cart
- > Railway and Marine systems
- > Electric tools
- > Medical equipments

Specification:

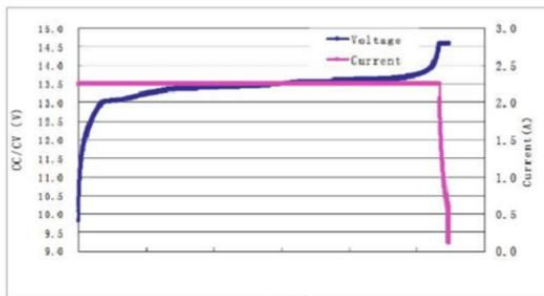
| | | |
|---|-------------------------------------|---|
| NOMINAL VOLTAGE | | 12.8 V |
| NOMINAL CAPACITY (0.2C, 25°C) | | 15.0±0.5Ah |
| DISCHARGE | NORMAL CURRENT | 6A |
| | MAX CONTINUOUS CURRENT | 15A (≤ 5min) |
| | CUT-OFF VOLTAGE | 10±0.2V |
| CHARGE | CHARGE VOLTAGE | 14.4±0.15V |
| | CHARGE CURRENT | ≤ 5A |
| | CHARGE MODE | CC/CV, use special Lithium LFP Charger. |
| INNER RESISTANCE | DISCHARGING INNER RESISTANCE | ≤ 70mΩ |
| CONFIGURATION | | 04S10P |
| OPERATION TEMPERATURE RANGE | | |
| <i>(When the environment temperature is higher than 45°C, please pay attention to ventilation and heat rejection)</i> | | |
| CHARGE | | 0°C~+45°C |
| DISCHARGE | | -20°C~+60°C |
| STORAGE TEMPERATURE RANGE (Capacity 80%) | | |
| <i>(Recommended long term storage temperature is 15~25°C)</i> | | |
| CHARGE- DISCHARGE | | 0°C~ +40°C |
| HUMIDITY RANGE | | |
| <i>(When the environment temperature is higher than 45°C, please pay attention to ventilation and heat rejection)</i> | | |
| CHARGE- DISCHARGE | | RH= 85%, When the environment humidity is higher than 85%, please pay attention to protect. |
| STORAGE | | RH= 50%, Easily oxidized components note sealed. |
| BP PROTECTION - BMS FEATURES | | |
| <i>OVP=Over charge protection; UVP=Over discharge protection; SC=Short-circuit; TEMP=Temperature levels protection (Charge & Discharge); BF=Balanced Function</i> | | |
| | | OVP, UVP, SC, TEMP, BF |
| BATTERY PACK HOUSING | | Plastic case. |
| DIMENSIONS (LxWxH) (mm) | | 152±3mm x 100±2mm x 96±2mm |
| WEIGHT (kg) | | 2.0 ±0.1kg |
| CYCLE | | Standard charge at 0.2C (A), rest 0.5~1h, discharge at 0.2C to cut off voltage, rest 0.5~1h, repeat the above steps until 1500 cycles. (capacity retention rate= 80%) |

Drawing:

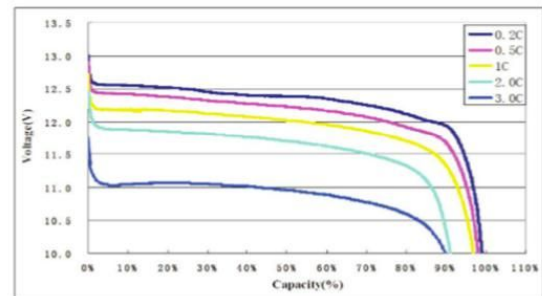


Battery Characteristic Curve at 25°C (77°F)

12V LiFePO4 Battery Charge Curve; 0.2C; 25°C

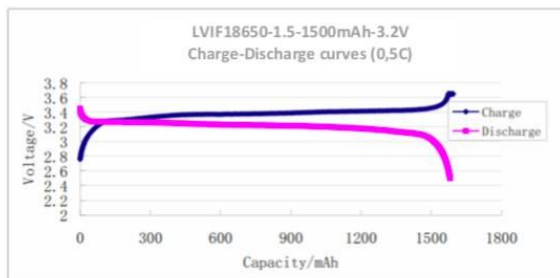


12V LiFePO4 Battery Different Rate Discharge Curve; 25°C

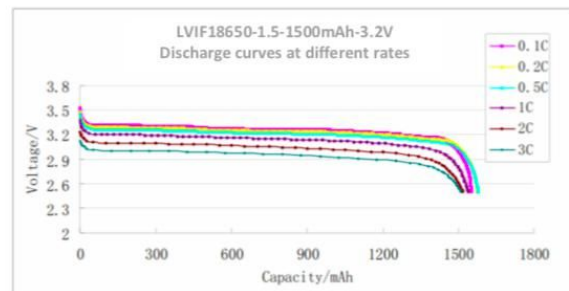


Cell feature Curves at 25°C (77°F)

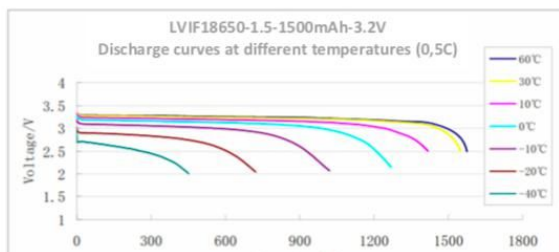
Charge-Discharge characteristic Curve



Discharge characteristic Curves



Discharge Curves at different Temperatures



Life characteristics of cyclic use

