



LIVEN LVIF Series-LiFePO₄

High performance, completely maintenance-free, low self-discharge.

Floating & standby use: up to 10 years @25°C.

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.

Applications:

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

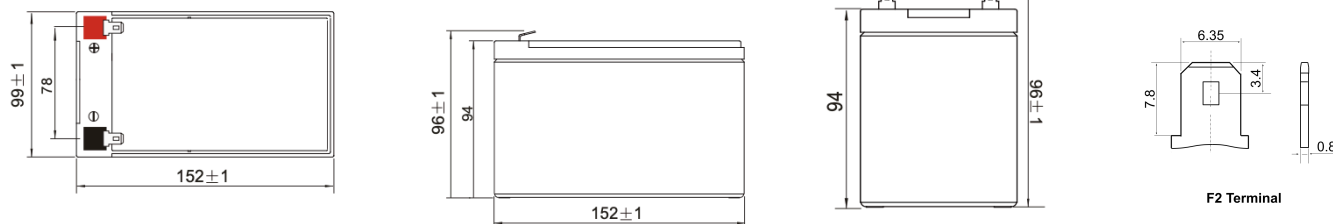
Dimensions:

| | |
|--------------|------------------|
| Length | 152±1mm (5.98in) |
| Width | 99±1mm (3.89in) |
| Height | 94±1mm (3.70in) |
| Total Height | 96±1mm (3.78in) |

Specifications:

| | |
|---|---|
| Nominal Voltage | 12.8V |
| Nominal Capacity | 12.0Ah @0.2C @25°C |
| Weight | Approx. 1.7Kg ±0.1kg (3.75lbs) |
| Energy | 153.6Wh |
| Internal Resistance | ≤ 30mΩ |
| Efficiency | 99 % |
| Terminal | F2 |
| Discharge | |
| Continuous Current | 30A |
| Pulse Current | 40A @15s |
| Recommended Volt. Disconnect | 10V |
| BMS Cut-Off Voltage | 8V |
| Reconnect Voltage | 9.2V |
| Short Circuit Protection | 200~600 μs |
| Charge | |
| Charge Voltage | 14.4~14.8V |
| Recommended Float Voltage | 13.8V |
| Recommended Charge Current | 6A |
| Maximum Charge Current | 12A |
| BMS Charge Cut-off Voltage | 15.6V |
| Charge Method | CC/CV, use special LFP Charger |
| Max. Modules in Series/Parallel | 4S/20P |
| Operation Temperature Range ¹ | Discharge: -30°C~60°C Charge: 0°C~45°C |
| Storage Temperature Range | -40°C~60°C |
| BMS High Temperature Cut-off | 80°C |
| Humidity Range ¹ | Charge/Discharge: RH= 85% ² Storage: RH= 50% ² |
| BP Protection - BMS Features ³ | OVP, UVP, SC, TEMP, BF |
| Cycle Life | >2000cycles @1C, 100% DOD |
| Self Discharge | 2% per Month |
| Battery Housing | ABS, UL-94 V-0 |
| Housing Protection | IP56 |
| Shipping Classification | UN3480, Class 9, UN38.3 |
| Optional | Bluetooth/RS485/RS232/SMBus/CANBus/ SOC LED/LCD Indicator |

Technical Drawings:

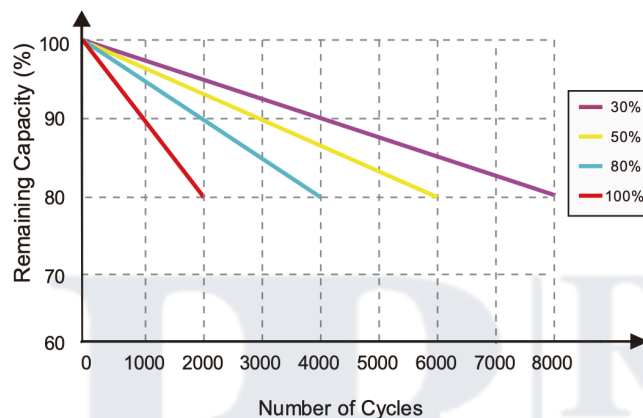


⁽¹⁾ When the environment temperature is higher than 45°C, please pay attention to ventilation and heat rejection.

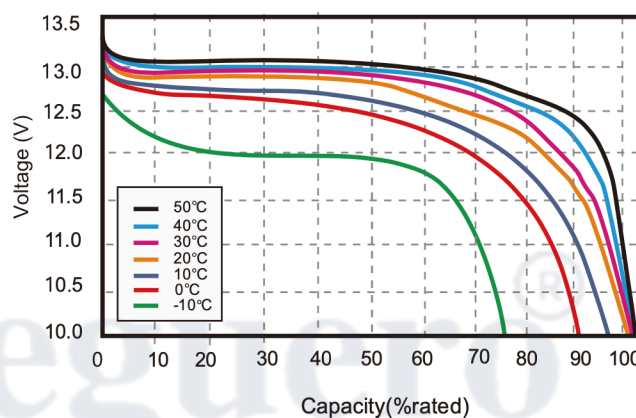
⁽²⁾ When humidity is higher than 85%, pay attention to protect, easily oxidized components note sealed.

⁽³⁾ OVP=Over charge protection; UVP=Over discharge protection; SC=Short-circuit; TEMP=Temp. levels protection; BF=Balanced Function

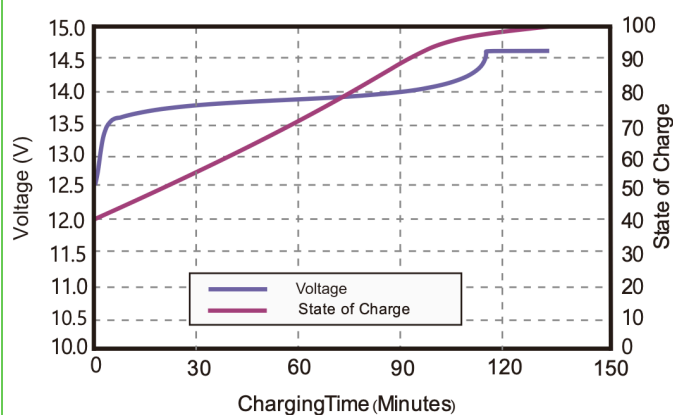
Cycle Life vs. Depth of Discharge (DOD)
Discharge @0.5C, 25°C



Discharge Capacity at Various Temperatures
Discharge @0.5C



State of Charge Curve @0.5C, 25°C



Charging Characteristics @0.5C, 25°C

