



### LIVEN LVIF Series-LiFePO<sub>4</sub>

- 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:

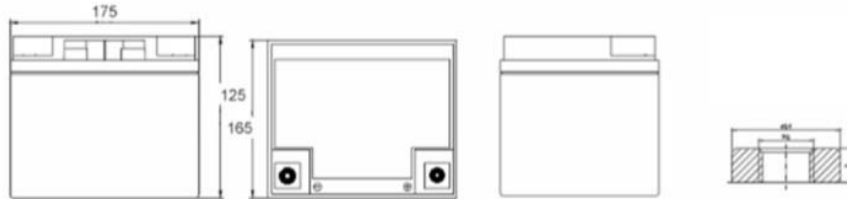
- Telecommunications
- Uninterruptable Power Supply (UPS)
- DC power supply
- Electric Power System (EPS)
- Emergency backup power supply
- Wheelchairs and Scooters
- Golf trolleys and Golf cart
- Railway and Marine systems
- Electric tools
- Medical equipments

### Specification:

<b>NOMINAL VOLTAGE</b>		12.8 V
<b>NOMINAL CAPACITY (0.2C, 25°C).</b>		25.6±2Ah
<b>DISCHARGE</b>	<b>NORMAL CURRENT</b>	25A
	<b>MAX CONTINUOUS CURRENT</b>	≤60A (≤ 5min)
	<b>CUT-OFF VOLTAGE</b>	10±0.2V
<b>CHARGE</b>	<b>CHARGE VOLTAGE</b>	14.4±0.15V
	<b>CHARGE CURRENT</b>	≤ 12A
	<b>CHARGE MODE</b>	CC/CV, use special Lithium LFP Charger.
<b>INNER RESISTANCE</b>	<b>DISCHARGING INNER RESISTANCE</b>	≤ 40mΩ
<b>CONFIGURATION</b>		04S08P
<b>OPERATION TEMPERATURE RANGE</b>		
<i>(When the environment temperature is higher than 45°C, please pay attention to ventilation and heat rejection)</i>		
<b>CHARGE</b>		0°C~+45°C
<b>DISCHARGE</b>		-20°C~+60°C
<b>STORAGE TEMPERATURE RANGE (Capacity 80%)</b>		
<i>(Recommended long term storage temperature is 15~25°C)</i>		
<b>CHARGE-DISCHARGE</b>		0°C~ +40°C
<b>HUMIDITY RANGE</b>		
<i>(When the environment temperature is higher than 45°C, please pay attention to ventilation and heat rejection)</i>		
<b>CHARGE-DISCHARGE</b>		RH= 85%, When the environment humidity is higher than 85%, please pay attention to protect.
<b>STORAGE</b>		RH= 50%, Easily oxidized components note sealed.
<b>BP PROTECTION - BMS FEATURES</b>		
<i>OVP=Over charge protection; UVP=Over discharge protection; SC=Short-circuit; TEMP=Temperature levels protection (Charge &amp; Discharge); BF=Balanced Function</i>		
		OVP, UVP, SC, TEMP, BF
<b>BATTERY PACK HOUSING</b>		Plastic case.
<b>DIMENSIONS (LxWxH) (mm)</b>		175±2mm x 165.0±2mm x 125±2mm
<b>WEIGHT (kg)</b>		3.40 ±0.1kg
<b>CYCLE</b>		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%)

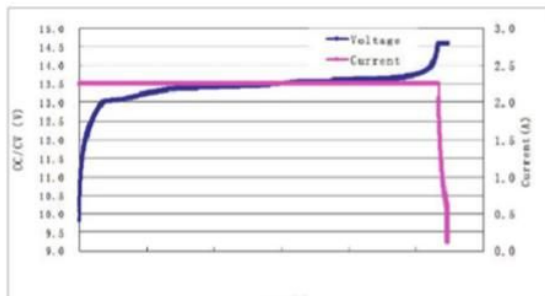
**Drawing:**

Unit: mm Dimension: 175 (L) x 165 (W) x 125 (L)

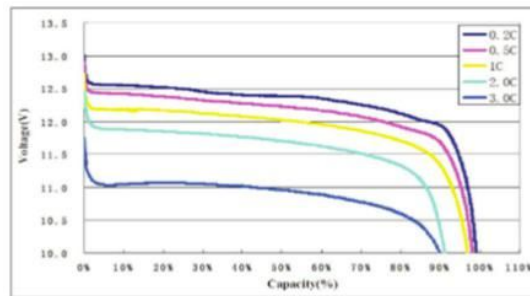


**Battery Characteristic Curve at 25°C (77°F)**

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

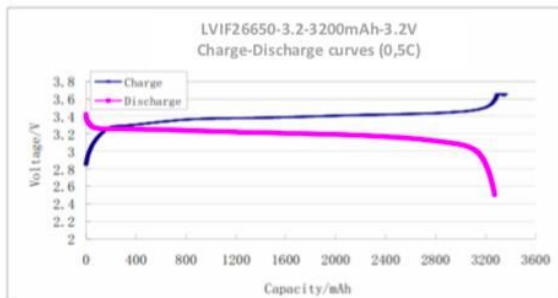


12V LiFePO4 Battery Different Rate Discharge Curve; 25°C

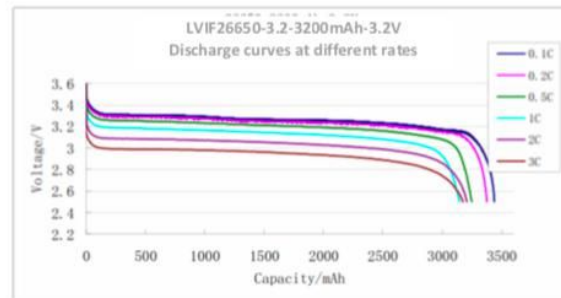


**Cell feature Curves at 25°C (77°F)**

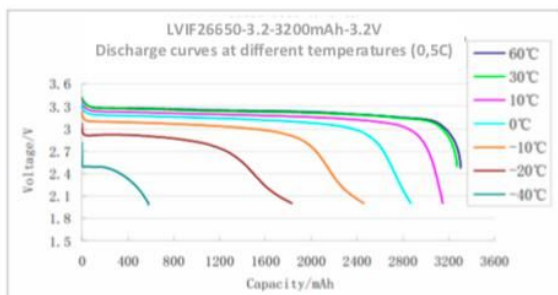
**Charge-Discharge characteristic Curve**



**Discharge characteristic Curves**



**Discharge Curves at different Temperatures**



**Life characteristics of cyclic use**

