



#### 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

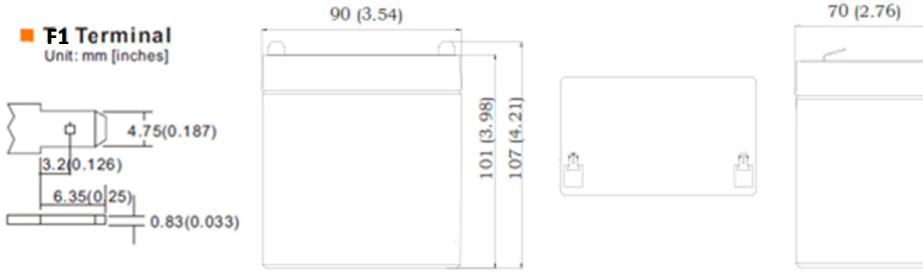
#### Application:

- > 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:

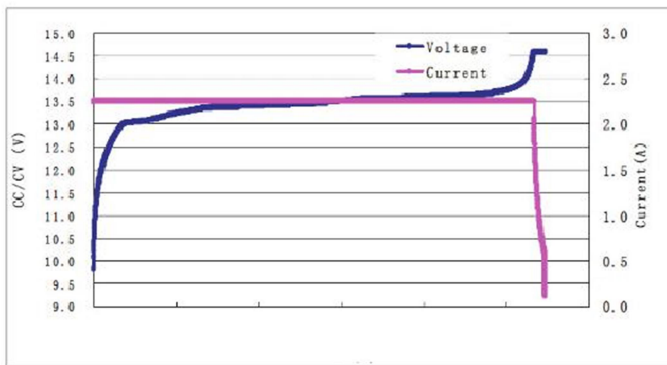
<b>NOMINAL VOLTAGE</b>		12.8 V
<b>NOMINAL CAPACITY (0.2C, 25°C)</b>		4.8±0.5Ah
<b>DISCHARGE</b>	<b>NORMAL CURRENT</b>	5.0A
	<b>MAX CONTINUOUS CURRENT</b>	10A (≤ 5min)
	<b>CUT-OFF VOLTAGE</b>	10±0.2V
<b>CHARGE</b>	<b>CHARGE VOLTAGE</b>	14.4±0.15V
	<b>CHARGE CURRENT</b>	≤ 2.5A
	<b>CHARGE MODE</b>	CC/CV, use special Lithium LFP Charger.
<b>INNER RESISTANCE</b>	<b>DISCHARGING INNER RESISTANCE</b>	≤ 100mΩ
<b>CONFIGURATION</b>		04S03P
<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>		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>		90±3mm x 70±2mm x 101±2mm
<b>WEIGHT (kg)</b>		0.67 ±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:

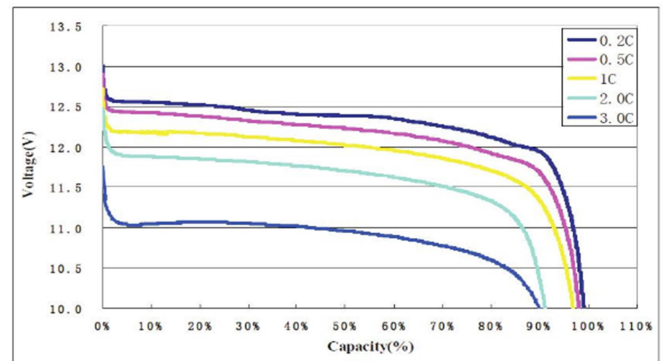


### Battery Characteristic Curve at 25°C (77°F)

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

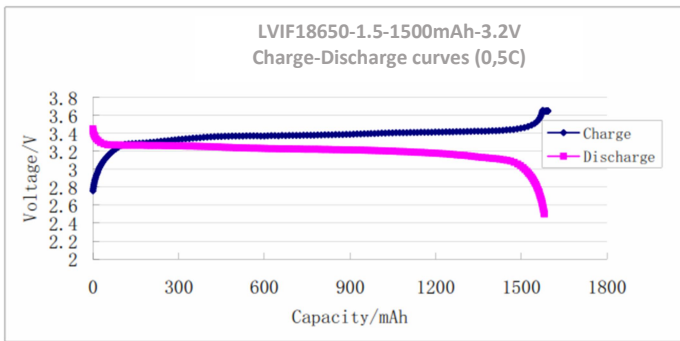


12V LiFePO4 Battery Different Rate Discharge Curve; 25°C

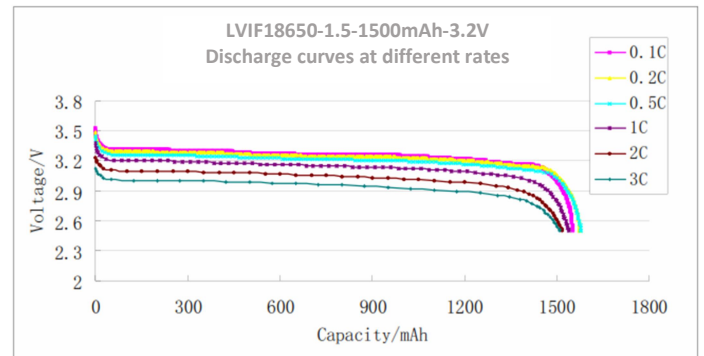


### Cell feature Curves at 25°C (77°F)

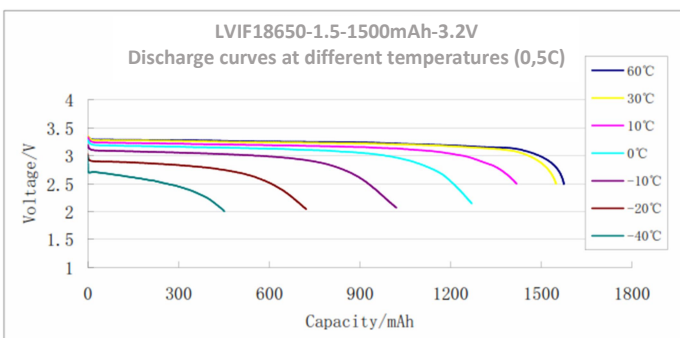
#### Charge-Discharge characteristic Curve



#### Discharge characteristic Curves



#### Discharge Curves at different Temperatures



#### Life characteristics of cyclic use

