



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:

- Golf trolleys and Golf cart
- Wheelchairs and Scooters
- DC power supply
- Electric Power System (EPS)



Specification:

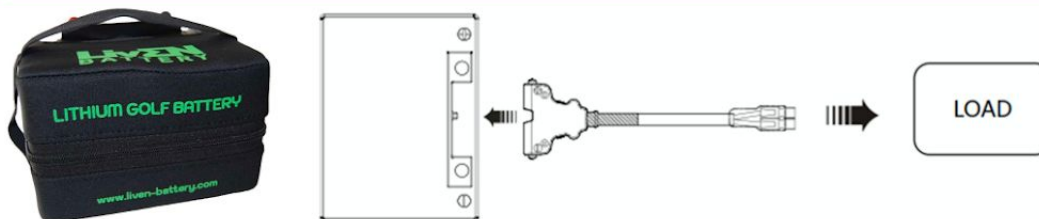
NOMINAL VOLTAGE		12.8 V
NOMINAL CAPACITY (0.2C, 25°C)		19.20±1Ah
DISCHARGE	NORMAL CURRENT	≤10A
	MAX CONTINUOUS CURRENT	19A (@ 5min)
	MAX PEAK CURRENT	25A (@ 5sec)
	CUT-OFF VOLTAGE	10±0.2V
CHARGE	CHARGE VOLTAGE	14.4±0.15V
	CHARGE CURRENT	≤ 5A
	CHARGE MODE	CC/CV, use special Lithium LFP Charger.
INNER RESISTANCE	DISCHARGING INNER RESISTANCE	≤ 45mΩ
CONFIGURATION		04S12P
OPERATION TEMPERATURE RANGE (When the environment temperature is higher than 45°C, please pay attention to ventilation and heat rejection)		CHARGE 0°C~+45°C
		DISCHARGE -20°C~+60°C
STORAGE TEMPERATURE RANGE (Capacity 80%) (Recommended long term storage temperature is 15~25°C)		0°C~ +40°C
HUMIDITY RANGE (When the environment temperature is higher than 45°C, please pay attention to ventilation and heat rejection)		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 OVP=Over charge protection; UVP=Over discharge protection; SC=Short-circuit; TEMP=Temperature levels protection (Charge & Discharge); BF=Balanced Function		OVP, UVP, SC, TEMP, BF
BATTERY PACK HOUSING		Plastic case.
DIMENSIONS (LxWxH) (mm)		168±1mm x 128±1mm x 102±2mm
WEIGHT (kg)		2.60 ±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 2000 cycles. (capacity retention rate= 80%)



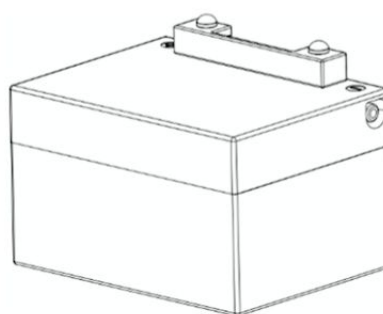
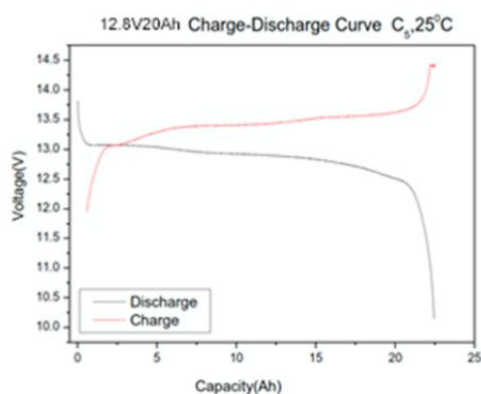
12V 20.0AH

LVIF20-12G-GOLF

Drawing:

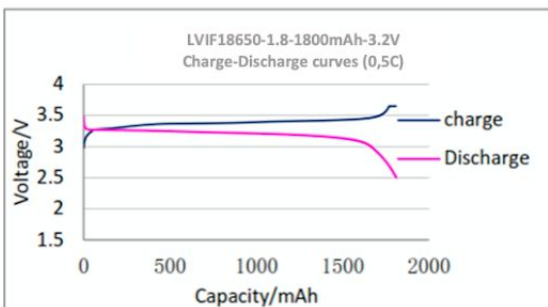


Battery Characteristic Curve at 25°C (77°F)

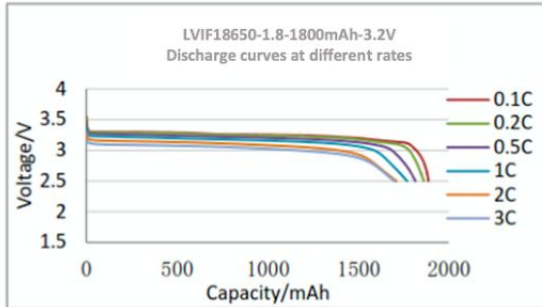


Cell feature Curves at 25°C (77°F)

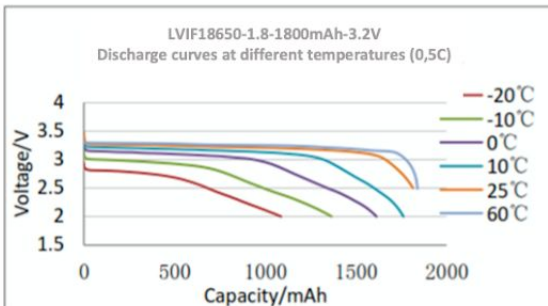
Charge-Discharge characteristic Curve



Discharge characteristic Curves



Discharge Curves at different Temperatures



Life characteristics of cyclic use

