

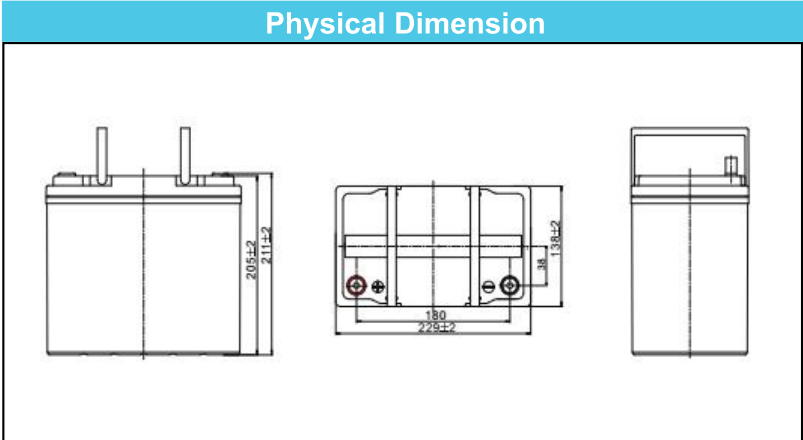
Plug into *The Current Future*



Green Energy Solutions & Electric Mobility

# Lithium Iron Phosphate (LiFePO4) Battery

## SPF12-50



### Specification:

<b>Electrical Characteristics</b>	Nominal Voltage	12.8V
	Nominal Capacity	50AH
	Energy	640Wh
	Internal Resistance	≤ 20mΩ
	Cycle life	>2000 cycles at 0.2C 100% DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% at 0.5C
	Efficiency of discharge	96~99% at 1C
<b>Charge</b>	Charge volt	14.6±/0.2V
	Charge Mode	CC at 0.2C to 14.6V, then at CV14.6V to charge current less than 0.02C
	Charge Current	14.6A
	Max. Charge current	25A
	Charge cut off voltage	15.6V±/0.2V
<b>Discharge</b>	Max. Continuous Current	50A
	Max. Pulse Current	100A (<3s)
	Discharge Cut-off Voltage	8V
<b>Environment</b>	Charge Temperature	0°C to 45°C (32F to 113F) at 60±25% Relative Humidity
	Discharge Temperature	- 20°C to 60°C (-4F to 140F) at 60±25% Relative Humidity
	Storage Temperature	0°C to 40°C (32F to 104F) 60±25% Relative Humidity
	Water Dust Resistance	IP56
<b>Mechanical</b>	Cell material	LiFePO4
	Plastic Case	ABS
	Dimensions (in./mm)	229*138*211mm
	Weight (lbs./kg.)	8.2 KG
	Terminal	M6
<b>BMS</b>	Protection function	Over charge protection, Over discharge protection, Over current protection, Short current protection, Balanced function, Temperature protection

### Discharge Characteristic

