



Shenzhen SPK Battery Co., Ltd  
Tel: +86-0755-2678 5495 Fax: +86-0755-2678 5377  
Factory Add: Bldg B, Huaxin Ruiming Industrial Zone, Xinwei, Dalang Village, Longhua Town,  
Bao'an Dist., Shenzhen China  
E-mail: [spk@spkbattery.com](mailto:spk@spkbattery.com) Website: [www.spkbattery.com](http://www.spkbattery.com)

## Product Introduction

The rechargeable  $\text{LiFePO}_4$  power battery uses  $\text{LiFePO}_4$  as its positive pole. With a large capacity and high output voltage, the battery also provides flawless charge-discharge cycle performance, stable output voltage, high-amperage charge and discharge capabilities, reliable electrochemical performance, a broad range of working temperatures, and excellent safety features (protection against over-charging, over-discharging and short circuit preclude combustion and explosions due to misuse). It produces little or zero toxins and is pollution free. Notably, it is suitable for high-drain output (5~10C discharge), and offers outstanding reliability in terms of discharge voltage, safety in use (no combustion, no explosions), long service life (times of cycles) and zero pollution. It is currently the best high-amperage output power battery. The structure and working principles of the  $\text{LiFePO}_4$  battery are as follows: the left side features an olivine-structured positive pole made of  $\text{LiFePO}_4$ , with an aluminum foil as a contact point. The center houses a polymer separator that separates the positive and negative poles. The lithium ion ( $\text{Li}^+$ ) can pass this separator but the electron ( $e^-$ ) cannot. The right side features a negative pole made of carbon (graphite), with copper foil as a contact point. Electrolyte is located between the two ends of the battery, and the entire battery is sealed with a metal cover.

When charging the  $\text{LiFePO}_4$  battery, the lithium ion ( $\text{Li}^+$ ) moves from the positive pole through the polymer separator towards the negative pole. During discharge, the lithium ion ( $\text{Li}^+$ ) moves from the negative pole through the separator towards the positive pole.

## Specifications of the $\text{LiFePO}_4$ battery

Nominal voltage: 3.2V; end-of-charge voltage: 3.6V; end-of-discharge voltage: 2.0V. The capacity of the  $\text{LiFePO}_4$  power battery varies, and can be categorized into three sizes: small (from a fraction of mAh to several mAh), medium (several dozen Ah), and large (several hundred Ah).

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### Features and benefits of the LiFePO4 battery:

1. High-efficiency output: Normal discharge is 2~5C, the continual high-amperage discharge can be as high as 10C, and the instant impulsive discharge (10s) can reach 20C.
2. Flawless performance under high temperatures. When external temperature reaches 65°C, the internal temperature can reach 95°C, and the end-of-discharge temperature can be 160°C. It has a secure and intact battery structure.
3. Supreme safety: The battery will not combust or explode even when the internal or external structure is impaired.
4. Superior cycle life: after 500 cycles, the discharge capacity is still above 95%.
5. It will not be damaged even if it is over-discharged to zero voltage.
6. Allows for fast charging.
7. Low cost.
8. Pollution free.

### Application of the LiFePO4 battery:

Due to the above features, LiFePO4 batteries of varying sizes are manufactured and are widely applied in:

1. Large electric vehicles: public transport, electric cars, tour vehicles, and hybrid-power cars;
2. Light-weight electric vehicles: electric bicycles, golf scooters, small flat electric power carts, forklift trucks, cleaning carts, electric wheelchairs.
3. Electric tools: electric drills, electric saws, lawn-mowers.
4. Remote-controlled model cars, ships and planes.
5. Electricity storage devices in solar-power and wind-power facilities.
6. UPS, flashlights, warning lights and miner's lamps (with superior safety);
7. In digital cameras as an alternative to disposable lithium batteries (3V) and the Ni-CD or Ni-MH rechargeable (9V) in digital cameras (at exactly the same size).
8. Small medical equipment, devices, and portable devices.

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**Feature comparison between the LiFePO4 power battery and other batteries**

ITEMS	Normal lithium battery	Lithium power battery	LiFePO4 power battery	Ni-MH battery	Unit or testing conditions
Standard voltage	3.6 or 3.7	3.6 or 3.7	3.2	1.2	√
Working voltage range	3.0~4.2	3.0~4.2	3.0~3.3	1.0~1.4	√
Capacity per unit mass	180	130	130	80	mab/g
Energy per unit weight	90~110	60~75	60~75	50~60	wb/kg
Energy per unit volume	280~300	220~240	220~240	200~220	wb/1
Optimal charge rate	0.2~0.5	0.5~1.0	0.5~1.5	0.2~0.5	C
Working discharge rate	1	2	2	0.5	CmA
Maximum discharge rate	1.5	5	10	2	CmA
Instant high-amperage impulse	2	10	20	3	CmA
Cycle life	60% 100 times	85% 300 times	>95% 500 times	>50% 50 times	1CmA charge 2CmA discharge
Cycle life for high-amperage discharge(high-drain use)	-	60% 300 times	>80% 300 times	>50% 10 times	1CmA charge 5CmA discharge
Safety	May induce serious combustion and explosion	May induce serious combustion and explosion	No combustion or explosion	May induce combustion	-
After 30 days' storage at zero voltage	Leakage, impairment	Leakage, impairment	No impairment	Leakage, impairment	-

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### Normal Battery 10 Series

Series	ITEM	Voltage(V)	Capacity (mAh)	Size		Standard Charge	Fast Charge	Weight(G)
				Diameter(MM)	Height(MM)			
10 Series	IFR10130E/30	3.2	30	10.3	13.2	0.5C	1C	5
	IFR10150E/30	3.2	30	10.3	15.5	0.5C	1C	6
	IFR10150E/50	3.2	50	10.3	15.5	0.5C	1C	6
	IFR10440E/200	3.2	200	10.3	44.2	0.5C	1C	10
	IFR10440E/210	3.2	210	10.3	44.2	0.5C	1C	10
	IFR10440E/220	3.2	220	10.3	44.2	0.5C	1C	10

### Normal Battery 14 Series

Series	ITEM	Voltage(V)	Capacity (mAh)	Size		Standard Charge	Fast Charge	Weight(G)
				Diameter(MM)	Height(MM)			
14 Series	IFR14240E/200	3.2	200	14.2	24.3	0.5C	1C	9
	IFR14240E/210	3.2	210	14.2	24.3	0.5C	1C	9
	IFR14500E/300	3.2	300	14.2	50.2	0.5C	1C	18.5
	IFR14500E/400	3.2	400	14.2	50.2	0.5C	1C	18.5
	IFR14500E/500	3.2	500	14.2	50.2	0.5C	1C	18.5
	IFR14500E/600	3.2	600	14.2	50.2	0.5C	1C	18.5
	IFR14500E/700	3.2	700	14.2	65.3	0.5C	1C	21
	IFR14650E/600	3.2	600	14.2	65.3	0.5C	1C	21

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**Normal Battery 15 Series**

Series	ITEM	Voltage(V)	Capacity (mAh)	Size		Standard Charge	Fast Charge	Weight(G)
				Diameter(MM)	Height(MM)			
15Series	IFR15266E/190	3.2	190	15.2	27	0.5C	1C	11
	IFR15266E/200	3.2	200	15.2	27	0.5C	1C	11

**Normal Battery 16 Series**

Series	ITEM	Voltage(V)	Capacity (mAh)	Size		Standard Charge	Fast Charge	Weight(G)
				Diameter(MM)	Height(MM)			
16 Series	IFR16340E/300	3.2	300	16.2	34.2	0.5C	1C	17.5
	IFR16340E/400	3.2	400	16.2	34.2	0.5C	1C	17.5
	IFR16340E/500	3.2	500	16.2	34.2	0.5C	1C	17.5

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### Normal Battery 18 Series

Series	ITEM	Voltage(V)	Capacity (mAh)	Size		Standard Charge	Fast Charge	Weight(G)
				Diameter(MM)	Height(MM)			
18 Series	IFR18290E/400	3.2	400	18.5	29.3	0.5C	1C	22
	IFR18290E/500	3.2	500	18.5	29.3	0.5C	1C	22
	IFR18290E/600	3.2	600	18.5	29.3	0.5C	1C	22
	IFR18500E900	3.2	900	18.5	50.2	0.5C	1C	32
	IFR18500E/1000	3.2	1000	18.5	50.2	0.5C	1C	32
	IFR18500E/1100	3.2	1100	18.5	50.2	0.5C	1C	32
	IFR18600E/1100	3.2	1100	18.5	65.3	0.5C	1C	40
	IFR18650E/1200	3.2	1200	18.5	65.3	0.5C	1C	40
	IFR18650E/1300	3.2	1300	18.5	65.3	0.5C	1C	40
	IFR18650E/1400	3.2	1400	18.5	65.3	0.5C	1C	40

### Normal Battery 22 Series

Series	ITEM	Voltage(V)	Capacity (mAh)	Size		Standard Charge	Fast Charge	Weight(G)
				Diameter(MM)	Height(MM)			
22 Series	IFR22430E/1000	3.2	1000	22.5	43.3	0.5C	1C	39
	IFR22430E/1100	3.2	1100	22.5	43.3	0.5C	1C	39
	IFR22430E/1200	3.2	1200	22.5	43.3	0.5C	1C	39
	IFR22650E/1800	3.2	1800	22.5	65.3	0.5C	1C	60
	IFR22650E/1900	3.2	1900	22.5	65.3	0.5C	1C	60
	IFR22650E/2000	3.2	2000	22.5	65.3	0.5C	1C	60

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### Normal Battery 26 Series

Series	ITEM	Voltage(V)	Capacity (mAh)	Size		Standard Charge	Fast Charge	Weight(G)
				Diameter(MM)	Height(MM)			
26 Series	IFR26430E/1600	3.2	1600	26.5	43.3	0.5C	1C	54
	IFR26430E/1700	3.2	1700	26.5	43.3	0.5C	1C	54
	IFR26430E/1800	3.2	1800	26.5	43.3	0.5C	1C	54
	IFR26650E/2800	3.2	2800	26.5	65.3	0.5C	1C	85
	IFR26650E/2900	3.2	2900	26.5	65.3	0.5C	1C	85
	IFR26650E/3000	3.2	3000	26.5	65.3	0.5C	1C	85

### Normal Battery 32 Series

Series	ITEM	Voltage(V)	Capacity (mAh)	Size		Standard Charge	Fast Charge	Weight(G)
				Diameter(MM)	Height(MM)			
32 Series	IFR32600E/3200	3.2	3200	32.5	60.5	0.5C	1C	125
	IFR32600E/3300	3.2	3300	32.5	60.5	0.5C	1C	125
	IFR32600E/3400	3.2	3400	32.5	60.5	0.5C	1C	125
	IFR32900E/4800	3.2	4800	32.5	90.5	0.5C	1C	188
	IFR32900E/4900	3.2	4900	32.5	90.5	0.5C	1C	188
	IFR32900E/5000	3.2	5000	32.5	90.5	0.5C	1C	188

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### Normal Battery 42 Series

Series	ITEM	Voltage(V)	Capacity (mAh)	Size		Standard Charge	Fast Charge	Weight(G)
				Diameter(MM)	Height(MM)			
42 Series	IFR42120E/9000	3.2	9000	42.5	120.5	0.5C	1C	390
	IFR42120E/10000	3.2	10000	42.5	120.5	0.5C	1C	390
	IFR42120E/12000	3.2	12000	42.5	120.5	0.5C	1C	390

### Normal Battery 9V Series

Series	ITEM	Voltage(V)	Capacity (mAh)	Size		Standard Charge	Fast Charge	Weight(G)
				Diameter(MM)	Height(MM)			
9V Series	IFR6F22E/150	9.0	150	17.5×26.5×48.5		0.5C	1C	35
	IFR6F22E/160	9.0	160	17.5×26.5×48.5		0.5C	1C	35
	IFR6F22E/170	9.0	170	17.5×26.5×48.5		0.5C	1C	35

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### High Drain Batteries Series

Series	ITEM	Voltage(V)	Capacity (mAh)	Size		Standard Charge	Fast Charge	Weight(G)
				Diameter(MM)	Height(MM)			
18 Series	IFR18500P/800	3.2	800	18.5	50.2	0.5C	1C	32
	IFR18500P/900	3.2	900	18.5	50.2	0.5C	1C	32
	IFR18650P/800	3.2	800	18.5	65.3	0.5C	1C	40
	IFR18650P/900	3.2	900	18.5	65.3	0.5C	1C	40
	IFR18650P/1000	3.2	1000	18.5	65.3	0.5C	1C	40
	IFR18650P/1100	3.2	1100	18.5	65.3	0.5C	1C	40
22 Series	IFR22430P/700	3.2	700	22.5	43.3	0.5C	1C	39
	IFR22430P/800	3.2	800	22.5	43.3	0.5C	1C	39
	IFR22430P/900	3.2	900	22.5	43.3	0.5C	1C	39
	IFR22650P/1500	3.2	1500	22.5	65.3	0.5C	1C	60
	IFR22650P/1600	3.2	1600	22.5	65.3	0.5C	1C	60
	IFR22650P/1700	3.2	1700	22.5	65.3	0.5C	1C	60
26 Series	IFR26430P/1300	3.2	1300	26.5	43.3	0.5C	1C	54
	IFR22430P/1400	3.2	1400	26.5	43.3	0.5C	1C	54
	IFR26430P/1500	3.2	1500	26.5	43.3	0.5C	1C	54
	IFR26650P/2400	3.2	2400	26.5	65.3	0.5C	1C	85
	IFR26650P/2500	3.2	2500	26.5	65.3	0.5C	1C	85
	IFR26650P/2600	3.2	2600	26.5	65.3	0.5C	1C	85
32 Series	IFR32600P/2800	3.2	2800	32.5	60.5	0.5C	1C	125
	IFR32600P/2900	3.2	2900	32.5	60.5	0.5C	1C	125

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	IFR32600P/3000	3.2	3000	32.5	60.5	0.5C	1C	125
	IFR32900P/4300	3.2	4300	32.5	90.5	0.5C	1C	188
	IFR32900P/4400	3.2	4400	32.5	90.5	0.5C	1C	188
	IFR32900P/4500	3.2	4500	32.5	90.5	0.5C	1C	188
42 Series	IFR42120P/7000	3.2	7000	42.5	120.5	0.5C	1C	390
	IFR42120P/8000	3.2	8000	42.5	120.5	0.5C	1C	390
	IFR42120P/9000	3.2	9000	42.5	120.5	0.5C	1C	390

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### Battery Packs Series

Series	ITEM	Voltage(V)	Capacity (mAh)	Size			Standard Charge	Fast Charge	Weight(G)
				Thickness(MM)	Width(MM)	Length(MM)			
10 Series	IFR10440Z/220	6.4	220	Φ10.3			0.5C	1C	21
	IFR10440Z/400	6.4	400	10.3	21	89	0.5C	1C	43
14 Series	IFR14500Z/400	6.4	400	14.2	29	51	0.5C	1C	43
	IFR14500Z/400-1	6.4	400	Φ14.2			0.5C	1C	38
	IFR14500Z/400-2	9.6	400	14.2	43	51	0.5C	1C	57
	IFR14500Z/800	6.4	800	14.2	57	51	0.5C	1C	78
18 Series	IFR18500Z/1100	9.6	1100	32.5	37	51	0.5C	1C	98
	IFR18650Z/3900	12.0	3900	56	66	75	0.5C	1C	500
	IFR18650Z/4200	12.0	4200	66	75	75	0.5C	1C	650
	IFR18650Z/5600-1	24.0	5600	66	75	150	0.5C	1C	1290
	IFR18650Z/5600-2	24.0	5600	66	75	150	0.5C	1C	1290
	IFR18650Z/5600-3	36.0	5600	66	112	150	0.5C	1C	1930
	IFR18650Z/5600-4	48.0	5600	66	150	150	0.5C	1C	2580
22 Series	IFR22430Z/1200-1	9.6	1200	22.5	43.3	68	0.5C	1C	120
	IFR22430Z/1200-2	12.8	1200	22.5	43.3	91	0.5C	1C	160
	IFR22430Z/1200-3	16.0	1200	22.5	43.3	113	0.5C	1C	200
	IFR22650Z/2000-1	9.6	2000	22.5	65.3	68	0.5C	1C	190
	IFR22650Z/2000-2	12.8	2000	22.5	65.3	91	0.5C	1C	250
	IFR22650Z/2000-3	16.0	2000	22.5	65.3	113	0.5C	1C	310

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26 Series	IFR26650Z/8000	12.0	8000	66	81	107	0.5C	1C	1030
	IFR26650Z/10000-1	24.0	10000	66	107	213	0.5C	1C	2730
	IFR26650Z/10000-2	3.2	10000	105	260	300	0.5C	1C	8000
	IFR26650Z/12000-1	12.0	12000	66	107	107	0.5C	1C	1370
	IFR26650Z/12000-2	24.0	12000	66	107	213	0.5C	1C	2730
	IFR26650Z/12000-3	36.0	12000	66	160	213	0.5C	1C	4090
	IFR26650Z/12000-4	48.0	12000	66	213	213	0.5C	1C	5450

### Electric Cars Batteries Series

Series	ITEM	Voltage(V)	Capacity (mAh)	Size			Standard Charge	Fast Charge	Weight(G)
				Thickness(MM)	Width(MM)	Length(MM)			
18 Series	IFR18500E/1100	9.6	1100	32.5	37	51	0.5C	1C	98
	IFR18650E/3900	12.0	3900	56	66	75	0.5C	1C	500
	IFR18650E/4200	12.0	4200	66	75	150	0.5C	1C	1290
	IFR18650E/5600	24.0	5600	66	75	75	0.5C	1C	650
	IFR18650E	24.0	5600	66	75	150	0.5C	1C	1290
	IFR18650E	36.0	5600	66	112	150	0.5C	1C	1930
	IFR18650E	48.0	5600	66	150	150	0.5C	1C	2580
22 Series	IFR22430E	9.6	1200	22.5	43.3	68	0.5C	1C	120
	IFR22430E	12.8	1200	22.5	43.3	91	0.5C	1C	160
	IFR22430E	16.0	1200	22.5	43.3	113	0.5C	1C	200
	IFR22650E	9.6	2000	22.5	65.3	68	0.5C	1C	190
	IFR22650E	12.8	2000	22.5	65.3	91	0.5C	1C	250

### Shenzhen SPK Battery Technology Co., Ltd

Tel: +86-0755-2678 5495 Fax: +86-0755-2678 5377 E-mail: spk@spkbattery.com Website: www.spkbattery.com  
 Factory Add: Bldg B, Huaxin Ruiming Industrial Zone, Xinwei, Dalang Village, Longhua Town, Bao'an Dist., Shenzhen China



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 E-mail: [spk@spkbattery.com](mailto:spk@spkbattery.com) Website: [www.spkbattery.com](http://www.spkbattery.com)

	IFR22650E	16.0	2000	22.5	65.3	113	0.5C	1C	310
26 Series	IFR26650E	12.0	8000	66	81	107	0.5C	1C	1030
	IFR26650E	12.0	12000	66	107	107	0.5C	1C	1370
	IFR26650E	24.0	10000	66	107	213	0.5C	1C	2730
	IFR26650E	24.0	12000	66	107	213	0.5C	1C	2730
	IFR26650E	36.0	12000	66	160	213	0.5C	1C	4090
	IFR26650E	48.0	12000	66	213	213	0.5C	1C	5450
	IFR26650E	3.2	130000	105	300	356	0.5C	1C	11500
	IFR26650E	3.2	100000	105	260	300	0.5C	1C	8000

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Tel: +86-0755-2678 5495 Fax: +86-0755-2678 5377 E-mail: [spk@spkbattery.com](mailto:spk@spkbattery.com) Website: [www.spkbattery.com](http://www.spkbattery.com)  
 Factory Add: Bldg B, Huaxin Ruiming Industrial Zone, Xinwei, Dalang Village, Longhua Town, Bao'an Dist., Shenzhen China