

LiFePO₄ Battery



ENERGY CELL

LiFePO₄ Energy Cell, 3C Max. Discharging Rate

The lithium iron phosphate (LiFePO₄) battery, also called LFP (lithium ferro-phosphate) battery, is a type of rechargeable battery which uses LiFePO₄ as a cathode material, specifically a lithium-ion battery is finding its market in electronics and consumer such as flashlight, lighting, portable power bank, ect,.

LFP cell has 3.2V nominal working voltage and shall be cut-off power at 3.65V per cell during charging.

LFP battery has the lowest cost if considering its long cycle life.

- 1: Energy density 140Wh/Kg weight ratio, and 340Wh/L volume ratio.
- 2: Up to 2000 cycles 80% DOD.
- 3: -10°C–+70°C operating temperature range.
- 4: Safe/stable chemistry with no explosion & fire.
- 5: 1/3 weight of lead acid and 64% of Ni-MH.
- 6: Environmentally friendly.

Model			Cap.	Volt.	Size (mm)		Charging Current (mA)		Discharging Current (mA)		End of Charge	End of Discharge	Weight	Cycle Life
Brand	Type	Part No.	mAh	V	Diameter ±0.2	Height ±0.3	Stand.	Fast	Stand.	Max.	V	V	g	DOD 80% >
HCF	IFR	10130E	30	3.2	10.25	13.0	6	30	6	90	3.65	2.0	5.0	2000
HCF	IFR	10440E	200	3.2	10.15	44.0	40	200	40	600	3.65	2.0	7.0	2000
HCF	IFR	14430E	250	3.2	14.05	43.0	50	250	50	750	3.65	2.0	11.0	2000
HCF	IFR	14500E	250	3.2	14.05	50.7	50	250	50	750	3.65	2.0	14.0	2000
HCF	IFR	14430E	300	3.2	14.05	43.0	60	300	60	900	3.65	2.0	12.0	2000
HCF	IFR	14500E	300	3.2	14.05	50.7	60	300	60	900	3.65	2.0	14.0	2000
HCF	IFR	14430E	400	3.2	14.05	43.6	80	400	80	1,200	3.65	2.0	13.0	2000
HCF	IFR	14500E	400	3.2	14.05	49.3	80	400	80	1,200	3.65	2.0	15.5	2000
HCF	IFR	14500E	400	3.2	14.05	50.7	80	400	80	1,200	3.65	2.0	15.5	2000
HCF	IFR	16340E	400	3.2	16.45	34.2	80	400	80	1,200	3.65	2.0	15.0	2000
HCF	IFR	14500E	500	3.2	14.05	49.3	100	500	100	1,500	3.65	2.0	16.0	2000
HCF	IFR	14500E	600	3.2	14.05	48.5	120	600	120	1,800	3.65	2.0	18.0	2000
HCF	IFR	18500E	600	3.2	18.15	49.7	120	600	120	1,800	3.65	2.0	26.0	2000
HCF	IFR	18500E	750	3.2	18.15	49.7	150	750	150	2,250	3.65	2.0	28.0	2000
HCF	IFR	18500E	900	3.2	18.15	49.7	180	900	180	2,700	3.65	2.0	30.0	2000
HCF	IFR	18500E	1,00	3.2	18.15	49.7	200	1,00	200	3,000	3.65	2.0	32.0	2000
HCF	IFR	22430E	1,10	3.2	22.15	42.7	220	1,10	220	3,300	3.65	2.0	45.0	2000
HCF	IFR	18650E	1,20	3.2	18.15	65.2	240	1,20	240	3,600	3.65	2.0	40.0	2000
HCF	IFR	22430E	1,20	3.2	22.15	42.7	240	1,20	240	3,600	3.65	2.0	47.0	2000
HCF	IFR	18650E	1,30	3.2	18.15	65.2	260	1,30	260	3,900	3.65	2.0	42.0	2000
HCF	IFR	18650E	1,40	3.2	18.15	65.2	280	1,40	280	4,200	3.65	2.0	42.0	2000
HCF	IFR	18650E	1,50	3.2	18.15	65.2	300	1,50	300	4,500	3.65	2.0	42.0	2000
HCF	IFR	22650E	1,80	3.2	22.15	65.0	360	1,80	360	5,400	3.65	2.0	60.0	2000
HCF	IFR	22650E	2,00	3.2	22.15	65.0	400	2,00	400	6,000	3.65	2.0	63.0	2000
HCF	IFR	22650E	2,20	3.2	22.15	65.0	440	2,20	440	6,600	3.65	2.0	65.0	2000
HCF	IFR	26650E	2,90	3.2	26.15	65.0	580	2,90	580	8,700	3.65	2.0	83.0	2000
HCF	IFR	26650E	3,00	3.2	26.15	65.0	600	3,00	600	9,000	3.65	2.0	85.0	2000
HCF	IFR	26650E	3,10	3.2	26.15	65.0	620	3,10	620	9,300	3.65	2.0	86.0	2000
HCF	IFR	26650E	3,20	3.2	26.15	65.0	640	3,20	640	9,600	3.65	2.0	88.0	2000
HCF	IFR	26650E	3,30	3.2	26.15	65.0	660	3,30	660	9,900	3.65	2.0	90.0	2000
HCF	IFR	32600E	3,50	3.2	32.30	60.0	700	3,50	700	10,500	3.65	2.0	125.0	2000
HCF	IFR	32600E	3,60	3.2	32.30	60.0	720	3,60	720	10,800	3.65	2.0	129.0	2000
HCF	IFR	32900E	5,00	3.2	32.30	60.0	1,000	5,00	1,000	15,000	3.65	2.0	180.0	2000
HCF	IFR	32900E	5,50	3.2	32.30	90.8	1,100	5,50	1,100	16,500	3.65	2.0	192.0	2000
HCF	IFR	42110E	10,0	3.2	41.60	109.3	2,000	10,0	2,000	30,000	3.65	2.0	350.0	2000
HCF	IFR	42110E	11,0	3.2	41.60	109.3	2,200	11,0	2,200	33,000	3.65	2.0	360.0	2000
HCF	IFR	42120E	12,0	3.2	41.60	109.3	2,250	12,0	2,250	36,000	3.65	2.0	380.0	2000
HCF	IFR	42120E	12,5	3.2	41.60	109.3	2,250	12,5	2,250	37,500	3.65	2.0	390.0	2000
HCF	IFR	42120E	13,0	3.2	41.60	119.1	2,600	13,0	2,600	37,500	3.65	2.0	390.0	2000

POWER CELL

LiFePO4 Power Cell, 10C Max. Discharging Rate

The lithium iron phosphate battery (LiFePO₄), also called LFP (lithium ferro-phosphate) battery, is a type of rechargeable battery which uses LiFePO₄ as a cathode material, specifically a lithium-ion battery for high power applications such as EV car, power tool and RC hobby.

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Model			Cap.	Volt.	Size (mm)		Charging Current (mA)		Discharging Current (mA)		End of Charge	End of Discharge	Weight	Cycle Life
Brand	Type	Part No.	mAh	V	Diameter Ø ±0.2	Height ±0.3	Stand.	Fast	Stand.	Max. 10C	V	V	g	DOD 80% >
HCF	IFR	18500P	900	3.2	18.15	49.7	180	900	180	9,00	3.65	2.0	28.0	2000
HCF	IFR	22430P	950	3.2	22.20	43.2	190	950	190	9,50	3.65	2.0	45.0	2000
HCF	IFR	18650P	1,100	3.2	18.15	65.2	220	1,10	220	11,0	3.65	2.0	40.0	2000
HCF	IFR	26430P	1,600	3.2	26.20	43.2	320	1,60	320	16,0	3.65	2.0	54.0	2000
HCF	IFR	22650P	1,600	3.2	22.20	65.2	320	1,60	320	16,0	3.65	2.0	60.0	2000
HCF	IFR	26650P	2,300	3.2	26.20	65.8	460	2,30	460	23,0	3.65	2.0	85.0	2000
HCF	IFR	32600P	3,000	3.2	32.20	60.8	600	3,00	600	30,0	3.65	2.0	125.0	2000
HCF	IFR	32900P	5,000	3.2	32.30	90.8	1,000	5,00	1,000	50,0	3.65	2.0	192.0	2000