

LiFePO4 Battery Pack



Lithium Iron Phosphate (LiFePO4) Batteries

Due to the demand for energy saving strategies, UPBattery delivers a full range of battery power systems with multiple nominal voltages (12V/24V/48V/240V/etc.). It is smaller in size and lighter in weight, but it has longer cycle life, temperature durability is stronger, and energy storage is more efficient. With the accurate and reliable battery management system (BMS), our lithium battery power system is a better solution for achieving highest efficiency and reliability. After years of practice, we have the most extensive experience in backup power supply in the industry, and we will continue to provide the best battery products.

Product Features

- Energy density is high. The volume and weight of lithium battery is 1/3 to 1/4 of the traditional lead acid battery with the same capacity.
- Energy conversion rate is 15% higher than that of a traditional lead acid battery, the advantage of energy saving is obvious. Self-discharge rate < 2% per month.
- Broad temperature adaptability. Products perform well at a temperature of -20° C to 60° C, without air conditioning system.
- Cycle durability for a single cell is 2000 cycles, which is 3 to 4 times more than the cycle durability of a traditional lead acid battery.
- Higher discharge rate, faster charging and discharging when there is a need for backup power supply for a period of 10 hours or less, we could reduce up to 50% of the capacity configuration, comparing to lead acid battery.
- High security. Our lithium battery is safe, electro chemical materials are stable, no fire or explosion under extreme conditions such as high temperature, short circuit, drop impact, piercing, etc
- Increased Flexibility: Modular Design enables deployment of up to four batteries in series and up to ten battery in parallel. ^ Optional LCD digital display. Optional LCD digital display can install in the front panel of battery and show battery voltage, capacity, current information, etc.

BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short detection function
- Balance function
- Temperature protection

Standards

- IEC 60896-21/22:2004;
- IEC 61247-2014;
- DIN 43539-t5:1984;
- DIN 40742-1999;
- UB/T 22473-2008;
- Passed ISO9001,ISO4001
- OHSA18001,CE,UL and Golden Sun Certification

Applications

- Electric Vehicle, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting and so on



Main Parameters Table

Model	Voltage	Capacity	Dimension (mm)			Weight
	(V)	(Ah)	L	W	H	kgs
LFP Series LifePO4 Battery Replace SLA Battery						
LFP12V7.0	12	7	151	65	94	0.71
LFP12V12	12	12	151	99	99	1.5
LFP12V20	12	20	181	77	170	3.5
LFP12V40	12	40	267	77	172	5.4
LFP12V50	12	50	223	150	177	6.5
LFP12V60	12	60	223	150	177	7.2
LFP12V75	12	75	256	165	210	9.4
LFP12V100	12	100	330	173	216	14
LFP12V120	12	120	406	173	236	16
LFP12V150	12	150	490	171	240	20
LFP12V200	12	200	520	238	218	25
LFP24V10	24	10	181	77	170	3.5
LFP24V20	24	20	223	120	175	6
LFP24V50	24	50	330	173	216	13
LFP24V100	24	100	520	238	218	25
LFP24V150	24	150	520	266	220	39
LPR Series LifePO4 Battery 19'R						
LPR12V50	12	50	390	442	45	11
LPR12V100	12	100	365	442	88	17
LPR12V200	12	200	405	442	177	34
LPR24V10	24	10	240	442	45	7
LPR24V20	24	20	365	442	45	10
LPR24V50	24	50	365	442	88	16
LPR24V100	24	100	405	442	177	34
LPR24V200	24	200	573	442	210	57
LPR48V10	48	10	300	442	45	9
LPR48V20	48	20	300	442	88	14
LPR48V30	48	30	375	442	88	17
LPR48V50	48	50	405	442	133	33
LPR48V75	48	75	445	442	177	46
LPR48V100	48	100	475	442	210	53
LPR48V200	48	200	600	600	1000	145
LPR48V10H	51.2	10	300	442	45	9.4
LPR48V20H	51.2	20	300	442	88	14.7
LPR48V30H	51.2	30	375	442	88	17.9
LPR48V50H	51.2	50	405	442	133	34.7
LPR48V75H	51.2	75	445	442	177	48.3
LPR48V100H	51.2	100	475	442	210	55.7
LPR48V200H	51.2	200	600	600	1000	152.3

RESERVE POWER BATTERIES