

The logo features the number '4' in white with a green plus sign, followed by 'LiFe' in white, all on a green-to-purple gradient background.

4+LiFe

LITHIUM ION CELLS & BATTERIES FOR
PORTABLE
APPLICATIONS
(RECHARGEABLE BATTERIES)
AS PER IS16047/IEC 61960

The text 'LifePO4' is in white and 'Battery' is in green, both in a bold, sans-serif font, set against a dark blue background.

LifePO4
Battery

LITHIUM ION CELLS & BATTERIES FOR
PORTABLE APPLICATIONS
(RECHARGEABLE BATTERIES)
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The text 'INFORMATION CATALOGUE' is written vertically in white, bold, sans-serif font on a green background.

**INFORMATION
CATALOGUE**

3. 4LiFe LFP 48V SERIES

The 4LiFe LFP 48V SERIES of lithium battery systems are high-tech products developed by 4LiFe Group. This series has significant advantages as backup batteries for communication equipment, such as high-power density, small size, long service life, resistance to high temperature, fast charging and discharging, and modular design.

General Features

- Positive electrode made of LiFePO₄ (LFP), ensuring high safety and a long service life
- Compatible with a variety of communication power supply devices
- Maintenance-free design, fitting in a communications cabinet
- Built-in BMS system with multiple protection and communication functions, which ensures high reliability of the battery pack and enables real-time monitoring of battery data over a long distance
- Low internal resistance, with efficient internal balance of the battery control circuit
- Wide working temperature range and high reliability
- Support for parallel connection of battery packs

Applications of 48V Series

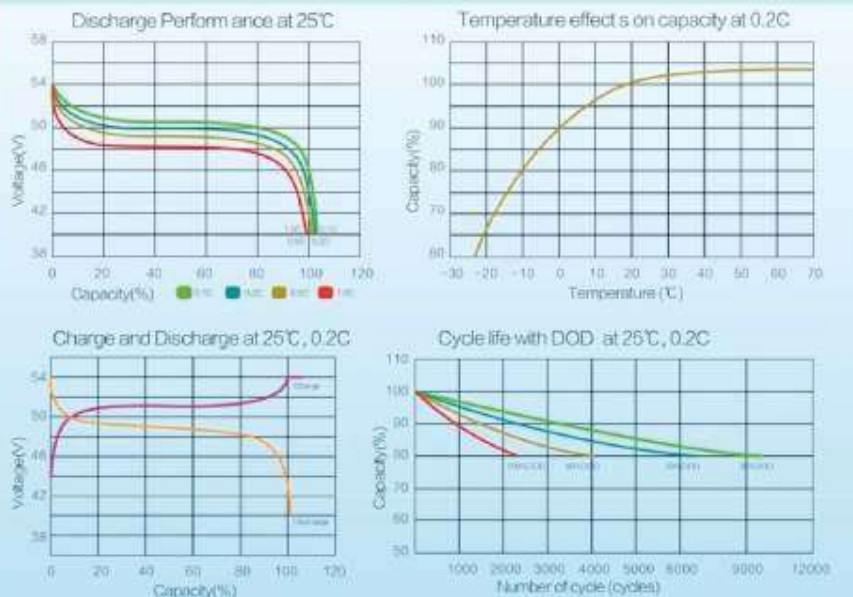
- BFSI
- UPS
- Electric Vehicle
- Wind Power System
- Network Device
- Medical Equipment
- Data Centre
- Telecom
- Solar Off-Grid System



Specifications:

MODEL	Nominal Voltage (V)	Rated Capacity (Ah)	Energy (Wh)	Max Charge (A)	Max Discharge Current (c)	Weight (Kg)
LFES4812	48	12	518.4	6	12	6
LFES4818	48	18	777.6	9	18	9
LFES4824	48	24	1036.8	12	24	12
LFES4830	48	30	1296.0	15	30	15
LFES4842	48	42	1814.4	20	42	21
LFES4854	48	54	2332.8	27	54	27
LFES4860	48	60	2592.0	30	60	30
LFES4880	48	80	3628.8	40	80	42
LFES48100	48	100	4406.4	50	100	51

*THE CAPACITY ACHIEVED IS OBSERVED ON THE STC 27°C AND 90% DOD



CUSTOMIZED SOLUTIONS

Specifications:

PRODUCT	VOLTAGE RANGE	CAPACITY RANGE
BFSI Segment	36V - 440V*	6Ah-200Ah
Elevator & Escalator	48V - 120V*	30Ah-200Ah
Electric Vehicle Battery	24V - 120V*	20Ah-150Ah
MW Solar Plant	480V - 850V*	10Ah-1000Ah
Grid Service - ESS	360V - 850V*	200Ah-1000Ah
UPS / Data Center	240V - 480V*	10Ah - 1000 Ah
Telecom	48V*	10Ah - 400Ah

*Higher Rating are available on request

Advantages

Lithium iron phosphate batteries (LiFePO₄ or LFP) offer lots of benefits compared to lead-acid batteries and other lithium batteries. Longer life span, no maintenance, extremely safe, lightweight, improved discharge and charge efficiency.

LITHIUM HAS A LONG LIFE SPAN

LFP Battery live more than 2500+ cycles at 90 percent depth of discharge, without decreasing in performance. The average lifetime of lead-acid batteries is just two years.



HIGH DISCHARGE RATES

LFP Battery Packs are specially developed to handle high discharge currents. It can easily start heavy engines or can be used to start several electrical devices at the same time.



HIGH EFFICIENCY

LFP Battery have 100% of their capacity available. Additionally, their fast charge and discharge rates cause them to be a great fit for all sorts of applications. Fast charging reduces any downtime and increases efficiency. High discharge pulse currents deliver bursts of power in a short amount of time.



CONSTANT POWER DISCHARGE DATA

	Model Number	Weight (kg)	Energy (Wh) @90%DOD	Discharge in Watts						
				15 mins	30 mins	1h	2h	3h	5h	10h
Solar Light	LFSL126	0.8	69.1	276	138	69	35	23	14	7
	LFSL1212	1.6	138.2	553	276	138	69	46	28	14
	LFSL1218	2.4	207.4	829	415	207	104	69	41	21
	LFSL1224	3.2	276.5	1106	553	276	138	92	55	28
	LFSL1230	4.0	345.6	1382	691	346	173	115	69	35
	LFSL1242	5.6	483.8	1935	968	484	242	161	97	48
	LFSL1254	7.2	622.1	2488	1244	622	311	207	124	62
	LFSL1260	8.0	691.2	2765	1382	691	346	230	138	69
	LFSL1272	9.6	829.4	3318	1659	829	415	276	166	83
	LFSL1280	11.2	967.7	3871	1935	968	484	323	194	97
	LFSL12100	13.6	1175.0	4700	2350	1175	588	392	235	118
	LFSL12120	16.0	1382.4	5530	2765	1382	691	461	276	138
Energy Storage	LFES2412	3.2	276.5	1106	553	276	138	92	55	28
	LFES2418	4.8	414.7	1659	829	415	207	138	83	41
	LFES2424	6.4	553.0	2212	1106	553	276	184	111	55
	LFES2430	8.0	691.2	2765	1382	691	346	230	138	69
	LFES2442	11.2	967.7	3871	1935	968	484	323	194	97
	LFES2454	14.4	1244.2	4977	2488	1244	622	415	249	124
	LFES2460	16.0	1382.4	5530	2765	1382	691	461	276	138
	LFES2484	22.4	1935.4	7741	3871	1935	968	645	387	194
	LFES24100	27.2	2350.1	9400	4700	2350	1175	783	470	235
	LFES24120	32.0	2764.8	11059	5530	2765	1382	922	553	276
UPS	LFUPS4812	6.0	518.4	2074	1037	518	259	173	104	52
	LFUPS4818	9.0	777.6	3110	1555	778	389	259	156	78
	LFUPS4824	12.0	1036.8	4147	2074	1037	518	346	207	104
	LFUPS4830	15.0	1296.0	5184	2592	1296	648	432	259	130
	LFUPS4842	21.0	1814.4	7258	3629	1814	907	605	363	181
	LFUPS4854	27.0	2332.8	9331	4666	2333	1166	778	467	233
	LFUPS4860	30.0	2592.0	10368	5184	2592	1296	864	518	259
	LFUPS4884	42.0	3628.8	14515	7258	3629	1814	1210	726	363
	LFUPS48100	51.0	4406.4	17626	8813	4406	2203	1469	881	441
Solar	LFS4812	6.0	518.4	2074	1037	518	259	173	104	52
	LFS4818	9.0	777.6	3110	1555	778	389	259	156	78
	LFS4824	12.0	1036.8	4147	2074	1037	518	346	207	104
	LFS4830	15.0	1296.0	5184	2592	1296	648	432	259	130
	LFS4842	21.0	1814.4	7258	3629	1814	907	605	363	181
	LFS4854	27.0	2332.8	9331	4666	2333	1166	778	467	233
	LFS4860	30.0	2592.0	10368	5184	2592	1296	864	518	259
	LFS4884	42.0	3628.8	14515	7258	3629	1814	1210	726	363
	LFS48100	51.0	4406.4	17626	8813	4406	2203	1469	881	441



4LiFe

LifePO4
Battery

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Design Improvement is a continuous process of 4LiFe. As a result, Specifications are subject to modification without prior notice. Indicated images are for representative purpose only.