

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)  
AS PER IS16047/IEC 61960

The text 'INFORMATION CATALOGUE' is written vertically in white, bold, sans-serif font on a green background.

**INFORMATION  
CATALOGUE**

# LITHIUM FERRO PHOSPHATE (LiFePO<sub>4</sub>) Battery Pack

## 1. 4LiFe LFP 12V SERIES

The LFP 12V Series are a family of 12V battery modules and accessories. The 12V family is designed as a drop-in replacement for lead-acid batteries offering twice the run-time but nearly half the weight. The 12V series is designed for lower voltage, lower power and longer run-time applications. They are built with LFP Technology with characteristic of high current density after technology on that offers outstanding intrinsic safety and excellent float and cycle life resulting in low cost of ownership.

### General Features

- Built-in automatic protection for over-charge, over discharge, and over temperature
- Maintenance free
- Internal cell balancing
- Communication of monitored data via Battery Management System (BMS)
- 2500+ Cycles, 100%DOD, under normal conditions

### Applications of 12V Series

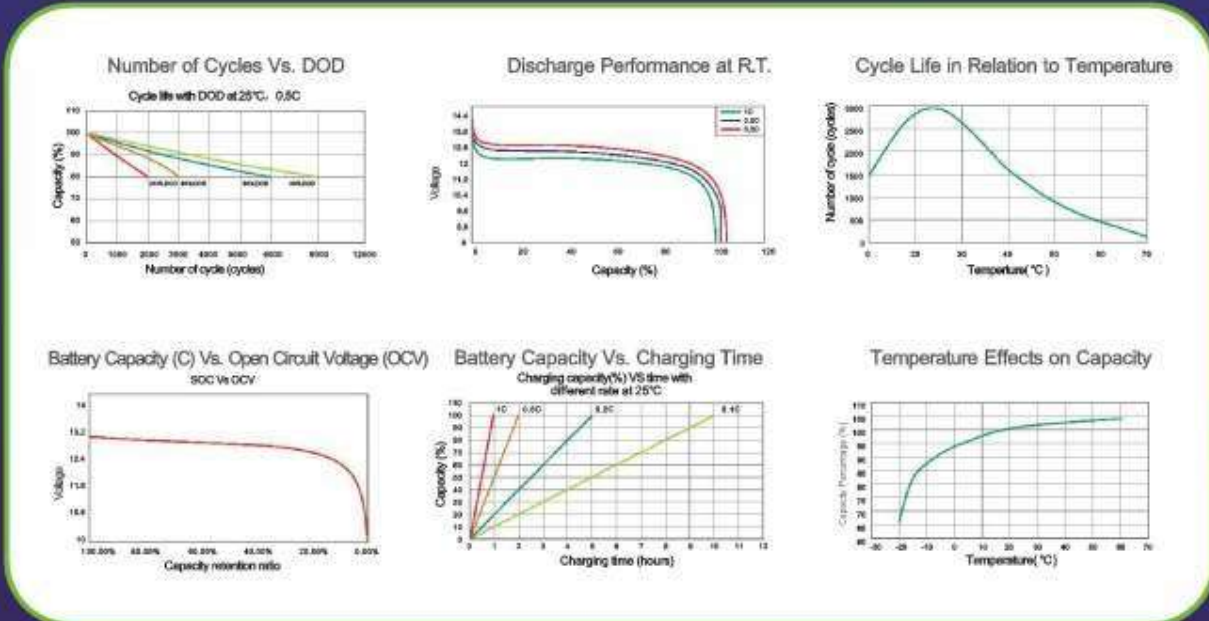
- Solar Home Lighting System
- Solar Streetlight
- High Mast & Mini-Mast
- Solar Off-Grid System
- UPS
- Golf Cart
- Network Device
- Medical Equipment



# Specifications:

| MODEL     | Nominal Voltage (V) | Rated Capacity (Ah) | Energy (Wh) | Max Charge (A) | Max Discharge Current (c) | Weight (Kg) |
|-----------|---------------------|---------------------|-------------|----------------|---------------------------|-------------|
| LFES126   | 12.8                | 6                   | 69.1        | 3              | 6                         | 0.8         |
| LFES1212  | 12.8                | 12                  | 138.2       | 6              | 12                        | 1.6         |
| LFES1218  | 12.8                | 18                  | 207.4       | 9              | 18                        | 2.4         |
| LFES1224  | 12.8                | 24                  | 276.5       | 12             | 24                        | 3.2         |
| LFES1230  | 12.8                | 30                  | 345.6       | 15             | 30                        | 4.0         |
| LFES1242  | 12.8                | 42                  | 483.8       | 21             | 42                        | 5.6         |
| LFES1254  | 12.8                | 54                  | 622.1       | 27             | 54                        | 7.2         |
| LFES1260  | 12.8                | 60                  | 691.2       | 30             | 60                        | 8.0         |
| LFES1272  | 12.8                | 72                  | 829.4       | 40             | 72                        | 9.6         |
| LFES1280  | 12.8                | 80                  | 967.7       | 40             | 80                        | 11.2        |
| LFES12100 | 12.8                | 100                 | 1175.0      | 50             | 100                       | 13.6        |
| LFES12120 | 12.8                | 120                 | 1382.4      | 60             | 120                       | 16.0        |

\*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 (LiFePO<sub>4</sub> 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 |
| <b>Solar Light</b>    | 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 |
| <b>Energy Storage</b> | 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 |
| <b>UPS</b>            | 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 |
| <b>Solar</b>          | 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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