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Technical specification

# ELERIX EX-L150K

Energy Storage  
LFP Cell

LiFePo4  
**Lithium Iron Cell**  
VDA PLUS 174/184

**3.2V / 150Ah / 1.5C**

EX-L150K



- ▶ High Energy Density Cell - 1.5C - 225A Discharge
- ▶ Lithium Iron Phosphate - LiFePO4 Chemistry
- ▶ Long Cycle and Calendar Life (6000 cycles / 15 years)
- ▶ Only Plus Temperature Range, No-Frost
- ▶ Superior quality and safety. No toxic chemicals
- ▶ Flat terminals M6

# ELERIX EX-L150K

LiFePO<sub>4</sub>, Lithium Iron Cell  
3.2V / 150Ah / 1.5C



## ELECTRICAL CHARACTERISTICS

| Items                              |                 |                | Specification              | Remarks                                                                              |
|------------------------------------|-----------------|----------------|----------------------------|--------------------------------------------------------------------------------------|
| Product code                       |                 |                | ELERIX EX-L150K            |                                                                                      |
| Nominal Voltage (V)                |                 |                | 3.2                        |                                                                                      |
| Nominal Capacity (Ah)              |                 |                | 150                        | Charge @0.5C<br>Discharge @0.5C                                                      |
| Nominal Energy (Wh)                |                 |                | 480                        |                                                                                      |
| Form Factor                        |                 |                | VDA PLUS 174/184           |                                                                                      |
| Terminal type                      |                 |                | Flat Terminal with M6 Hole | Max Torque 6 N/m                                                                     |
| Terminal material                  |                 |                | Alu (-) / Alu (+)          |                                                                                      |
| Cell Dimension (mm)                | Width           | 174            |                            |                                                                                      |
|                                    | Height          | 185            |                            |                                                                                      |
|                                    | Thick           | 46             |                            |                                                                                      |
| Cell Volume (dm³ - L)              |                 |                | 1.48                       |                                                                                      |
| Nominal Weigth (kg)                |                 |                | 3.07                       | Average value                                                                        |
| Energy Density                     | Gravity (Wh/kg) | 156            |                            |                                                                                      |
|                                    | Volume (Wh/L)   | 324            |                            |                                                                                      |
| Internal Resistance mOhm (Max)     |                 |                | 0.4                        |                                                                                      |
| Voltage                            | Minimal (V)     | 2.5            |                            |                                                                                      |
|                                    | Maximal (V)     | 3.65           |                            |                                                                                      |
| Current                            | Charge          | Standard (A)   | 75                         |                                                                                      |
|                                    |                 | Max. Cont. (A) | 150                        |                                                                                      |
|                                    | Discharge       | Standard (A)   | 75                         |                                                                                      |
|                                    |                 | Max. Cont. (A) | 225                        | continued, temp ≤ 50°C                                                               |
|                                    |                 | Peak (A)       | 300                        | ≤ 30 sec, temp ≤ 50°C                                                                |
|                                    |                 |                |                            |                                                                                      |
| ESS Cycle Life (60% DOD)           |                 |                | 6000                       | @0.3C/@0.3C, @25°C, >60% SOH                                                         |
| Cycle Life (80% DOD)               |                 |                | 3000                       | @0.3C/1C, @25°C, >80% SOH                                                            |
| Operating Lifespan (Calendar Life) |                 |                | 15 years                   | Avarage material aging estimation                                                    |
| Operating Temperature              | Charge (°C)     | 0 ≈ +50 °C     |                            | Recommended temperature: +25°C<br>Maximal temperature for permanent operation: +45°C |
|                                    | Discharge (°C)  | 0 ≈ +50 °C     |                            |                                                                                      |
|                                    | Storage (°C)    | -20 ≈ +50 °C   |                            |                                                                                      |

## KEY SAFETY FEATURES

| Items         | Specification                   |
|---------------|---------------------------------|
| Fire          | No Self-ignition, No Explosion. |
| Overcharge    | No Explosion. No Fire.          |
| Short-circuit | No Explosion. No Fire.          |
| Penetration   | Smoke only. No Fire.            |
| Crush         | Smoke only. No Fire.            |
| Overheating   | Stable up to +130°C. No fire.   |
| Non-toxic     | No Cobalt, No Lead-Acid.        |
| Recycling     | +90% Recyclable.                |

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