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Technical specification

# ELERIX EX-L110

## High Power LFP Cell

LiFePo4  
Lithium Iron Cell

**3.2V / 110Ah / 2C**

EX-L110



- ▶ High Power Cell - up to 2C - 220A Discharge
- ▶ Lithium Iron Phosphate - LiFePO4 Chemistry
- ▶ Long Cycle and Calendar Life (3000 cycles / 15 years)
- ▶ Wide Temperature Range, Including Sub-Zero Operation
- ▶ Superior quality and safety. No toxic chemicals

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LiFePo4, Lithium Iron Cell  
3.2V / 110Ah / 2C



## ELECTRICAL CHARACTERISTICS

| Items                                 | Specification        | Remarks                           |                   |                       |
|---------------------------------------|----------------------|-----------------------------------|-------------------|-----------------------|
| Product code                          | EX-L110              |                                   |                   |                       |
| Nominal Voltage (V)                   | 3.2                  |                                   |                   |                       |
| Nominal Capacity (Ah)                 | 110                  | Charge @0.5C, Discharge @0.5C     |                   |                       |
| Nominal Energy (Wh)                   | 352                  |                                   |                   |                       |
| Form Factor                           | 165/220 size         |                                   |                   |                       |
| Terminal type                         | Screw M8 Hole        |                                   |                   |                       |
| Terminal material                     | Copper (-) / Alu (+) |                                   |                   |                       |
| Cell Dimension (mm)                   | Width                | 165                               |                   |                       |
|                                       | Height               | 217                               | Without terminals |                       |
|                                       | Thick                | 39                                |                   |                       |
| Cell Volume (dm <sup>3</sup> - L)     | 1.40                 |                                   |                   |                       |
| Nominal Weight (kg)                   | 2.79                 | Average value                     |                   |                       |
| Energy Density                        | Gravity (Wh/kg)      | 126                               |                   |                       |
|                                       | Volume (Wh/L)        | 252                               |                   |                       |
| Internal Resistance<br>mOhm (Max)     | 0.8                  |                                   |                   |                       |
| Voltage                               | Minimal (V)          | 2.5                               |                   |                       |
|                                       | Maximal (V)          | 3.65                              |                   |                       |
| Current                               | Charge               | Standard (A)                      | 36.7              |                       |
|                                       |                      | Max. Cont. (A)                    | 110               |                       |
|                                       | Discharge            | Standard (A)                      | 110               |                       |
|                                       |                      | Max. Cont. (A)                    | 220               | ≤ 3 min, temp ≤ 50°C  |
|                                       |                      | Peak (A)                          | 275               | ≤ 30 sec, temp ≤ 50°C |
| Cycle Life at 80% DOD                 | 3000                 | @0.3C/1C, @25°C, >80% SOH         |                   |                       |
| Operating Lifespan<br>(Calendar Life) | 15 years             | Average material aging estimation |                   |                       |
| Operating Temperature                 | Charge (°C)          | -10 ~ +50 °C                      |                   |                       |
|                                       | Discharge (°C)       | -20 ~ +60 °C                      |                   |                       |
|                                       | Storage (°C)         | -20 ~ +45 °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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