



#### Technical Data

Model

LIVIO HV-10250



#### High Performance & Long Life

Delivers over 3500 cycles at 90% Depth of Discharge (DoD), consistent power with low degradation rate

#### Environment & Safety Focused

IP54 rated dust protection

#### Robust & Compact Design

Enclosure: CRCA powder-coated  
Connectors: High Voltage Connectors

#### Smart Connectivity Options

RS485, CAN, Bluetooth

#### Battery Management System (BMS)

32S60A intelligent BMS, real-time protection against overcharge, over-discharge, short circuit, temperature spikes, and thermal runaway,



|                                      |            |                                 |
|--------------------------------------|------------|---------------------------------|
| <b>Main Parameter</b>                |            |                                 |
| Battery Chemistry                    |            | LFP                             |
| Built-in Circuit Breaker             |            | Yes                             |
| Capacity (Ah)                        |            | 50                              |
| Nominal Voltage (V)                  |            | 102.4                           |
| Operating Voltage (V)                |            | 80-116.8                        |
| Nominal Energy (kWh)                 |            | 5.12                            |
| Usable Energy (kWh)                  |            | 4.6                             |
| Charge/Discharge Current (A)         | Recommend  | +25/-50                         |
|                                      | Max.       | +25/-50                         |
|                                      | Peak(25°C) | +30/-50                         |
| <b>Other Parameter</b>               |            |                                 |
| Recommend Depth of Discharge         |            | 90%                             |
| Dimension (L*W*H, mm)                |            |                                 |
| Weight Approximate(kg)               |            | 40                              |
| IP Rating of Enclosure               |            | IP54                            |
| Operating Temperature                |            | 0-55                            |
| Recommend Operating Temperature (°C) |            | Charge: 0-55, Discharge: -20-60 |
| Storage Temperature                  |            | At 50% SOC, 25-45°C             |
| Humidity                             |            | 90% RH                          |
| Altitude                             |            | <2000 m                         |
| Cycle Life                           |            | 3500                            |
| Installation                         |            | Wall mount                      |
| Communication port                   |            | RS485, CAN                      |
| Warranty Period                      |            | 5 Years                         |
| Energy over lifetime (kWh)           |            | 14315                           |

DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

#### Description of the battery

The LIVIO HV 10250 battery is an advanced energy storage product engineered for stable and reliable power supply across diverse applications. Its design makes it particularly suitable for scenarios requiring high power density, compact installation, reduced structural load, and extended cycle life. The system integrates an intelligent Battery Management System (BMS) that provides real-time monitoring of cell voltage, current, and temperature. The BMS also performs passive cell balancing to enhance consistency and maximize service life.

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