High Performance & Long Life

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

Environment & Safety Focused

IP20-rated-suitable for indoor applications

Robust & Compact Design

Enclosure: CRCA powder-coated
Connectors: Terminal block connector

Smart Connectivity Options

RS485, CAN

Battery Management Systems (BMS)

16S 100A intelligent BMS, Real-time protection against overcharge, over-discharge, short circuit, temperature spikes, and thermal runaway,

SIEGER

Trust Built Within

Technical Data

Model		LIVIO LV-51100
Main Parameter		
Battery Chemistry		LFP
Built-in Circuit Breaker		Yes
Capacity (Ah)		100
Nominal Voltage (V)		51.2
Operating Voltage (V)		40-58.4
Nominal Energy (kWh)		5.12
Usable Energy (kWh)		4.6
Charge/Discharge Current (A)	Recommend	+50/-50
	Max.	+50/-80
	Peak(25°C)	+50/-100
Other Parameter		
Recommend Depth of Discharge		90%
Dimension (L*W*H, mm)		
Weight Approximate(kg)		45-50
IP Rating of Enclosure		IP20
Operating Temperature		0-55
Recommend Operating Temperature (℃)		Charge: 0-55, Discharge: -20-60
Storage Temperature		At 50% SOC, 25-45℃
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℃. System usable energy may vary due to system configuration parameters.

Description of the battery

The LIVIO LV-51100 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 low 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.