

CeLLife Lite solution



CeLLife Lite solution leverages EFP™ technology to deliver **fast, accurate, and easy-to-integrate** battery diagnostics for EV-modules. It supports a wide range of applications—from **life extension to maintenance and recycling**—by providing precise electrical parameters from the very first measurement. As data accumulates, **self-learning diagnostics** unlock **deeper insights, enabling accurate health assessment**

Key Features

CeLLife Lite, a compact solution comprising the CeLLife Lite Contact Probes, the portable CeLLife Lite Analyzer, and the CeLLife Battery Perfected Cloud, enables fast deployment and flexible manual use, enhanced by CeLLife AI-powered diagnostics for assessing a module's State-of-Health (SoH) and detecting defects.

CeLLife Lite description

CeLLife Lite Contact Probes	Measures cells and modules with a single, streamlined setup. (Modules can be measured without full pack disassembly)
CeLLife Lite Analyzer	Connects to CeLLife AI and displays the diagnostic results in real time
CeLLife AI	Cloud-based AI engine delivering secure and accurate diagnostics
CeLLife Battery Perfected Cloud	Unified interface for accessing battery data and advanced analytics

Applications

Full test time: 10 seconds

Easy / fast connection

CeLLife Cloud for dashboards and analytics

Immediate health traffic lights on device screen

Portable, seamless, and compact setup

Fast and easy installation

Flexible for multiple battery types

Key Benefits

Battery Re-purposing: Evaluates the suitability of used EV-modules for re-purposing, supporting sustainable practices and extending battery lifecycles.

Battery Recycling: Assesses the health and condition of used EV-modules, facilitating effective sorting and recycling processes.

Battery Maintenance: Detects faulty EV-modules that need replacement

*By integrating CeLLife Lite solution with the patented EFP™ into operations, companies can achieve **higher efficiency, reduce environmental impact, and ensure the reliability and safety of battery products.***

CeLLife Technologies Oy

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Battery, perfected.

Technical Information

Instant Battery Health Diagnostics, Anywhere

CeLLife Lite offers real-time, plug-and-play battery health insights starting from day 1 of deployment. Powered by CeLLife AI, the system uses multidimensional AI models to assess aging phenomena, detect cell imbalance within modules, and flag hazardous broken circuits, ensuring both performance and safety.

Results are visualized with a simple traffic light system directly on the device touchscreen and mirrored in cloud dashboards, enabling fast decision-making in the field or at scale. Additionally, traceable SoH diagnostics produced with CeLLife Lite support compliance with the European Battery Passport.

CeLLife Lite Deliverables

Standard delivery	Add-ons
Health Traffic Lights	Module State of Charge (SoC)*
Module Type Detection	Module State of Health (SoH)*
Cloud dashboards	APIs for system integration

*Requires reference data, implemented in a separate project

Technical Information for CeLLife Lite Analyzer

Measurement Specification	
Module voltage range	6 - 70 V
Module temperature	15 - 25 °C
Frequency range	1 Hz - 4 kHz
Available metrics	Health traffic lights Module voltage (OCV) AC & DC internal resistances
Device Specification	
Display	7-inch TFT touchscreen, 800 x 480 resolution
Dimensions	350 x 275 x 150 mm (W x D x H), 1.5 kg
Interfaces	CeLLife Lite Contact Probes Temperature sensor 2*USB (QR code reader / keyboard) for cell ID input Cellular cloud connectivity Ethernet
Operating voltage	100 - 240 V, 50 - 60 Hz
ADC resolution	16 bit



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Battery,
perfected.