CeLLife Line Pro

CeLLife Line Pro solution leverages EFP™ technology to deliver **fast**, **accurate**, and **easy-to-integrate** battery diagnostics. It supports a wide range of applications from **cell manufacturing to module assembly (in EV industry)** by delivering fully automated diagnostics in seconds. As data accumulates, **self-learning diagnostics** unlock deeper insights, enabling instant defect detection and process optimization

Key Features

CeLLife Line Pro is a fully automated diagnostics solution for cell production and module assembly lines, enabling **100% testing coverage** without slowing down throughput. It provides near real-time, AI-powered diagnostics and supports both IPQC and EoL testing with cloud or local deployment options.

CeLLife Line Pro description

CeLLife Active Probe	Integrated to the production line, connects to the cell/module terminals
CeLLife AI	Cloud-based or local AI engine delivering secure and accurate diagnostics
CeLLife API	Provides diagnostic results to the factory automation system
CeLLife Battery Perfected Cloud	Unified interface for accessing battery data and advanced analytics

Applications

Full test time: 5 seconds
Easy / fast connection

CeLLife Cloud for dashboards and analytics
Immediate defect diagnostics available via the CeLLife API

Compact setup for production line integration
Fast and easy installation

Key Benefits

Cell manufacturing: In-Process Quality Control (**IPQC**) and End-of-Line (**EoL**) testing with real-time diagnostics to ensure every cell meets quality standards before delivery

Module Assembly: Incoming cell **entry checks** and **post-assembly validation**, including weld quality checks, to guarantee module integrity and performance.

By integrating CeLLife Line Pro 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

www.cellife.fi

sales@cellife.fi

Battery,
perfected.

Technical Information

Automated Quality Control for Battery Manufacturing

CeLLife Line Pro is a fully automated diagnostic solution designed for integration directly into battery manufacturing environments. Purpose-built for quality control, it enables real-time evaluation of every individual cell on the production line, ensuring consistency, traceability, and zero-defect delivery.

By real time diagnostics, CeLLife Line Pro enables a closed-loop feedback system, allowing manufacturers to react instantly to deviations in cell quality. Quality issues are not just caught—they can be corrected upstream.

The system supports deployment via cloud-powered diagnostics or a local server, ensuring high availability and compliance with strict service-level requirements, while offering flexible integration across diverse production infrastructures.
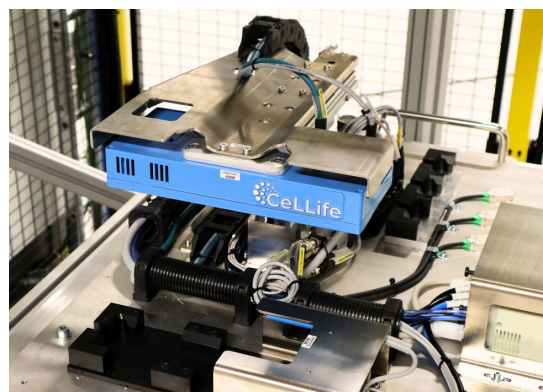
CeLLife Line Pro deliverables

Standard delivery	Add-ons
Multidimensional defect detection	Physical integration to the production line
Standard API for result integration	Defect root cause recognition*
Cloud diagnostics & dashboards	Local server installation

*Requires reference data, implemented in a separate project

Technical Information for CeLLife Line Pro

Measurement Specification	
Cell voltage	Any voltage
Cell form factor	Any form factor
Cell chemistry	Any cell chemistry
Available metrics	Detected defects Cell voltage (OCV) AC & DC internal resistances
Device Specification	
Deployment options	Cloud diagnostics or a local server
Measured frequencies	1 Hz - 4 kHz
Interfaces	CeLLife Active Probe Temperature sensor Ethernet CeLLIfe API
Operating voltage	10 - 30 V (DC)

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