

PROVENTIA EVA Life



Test Module for Performance & Lifetime
Testing of Battery Cells



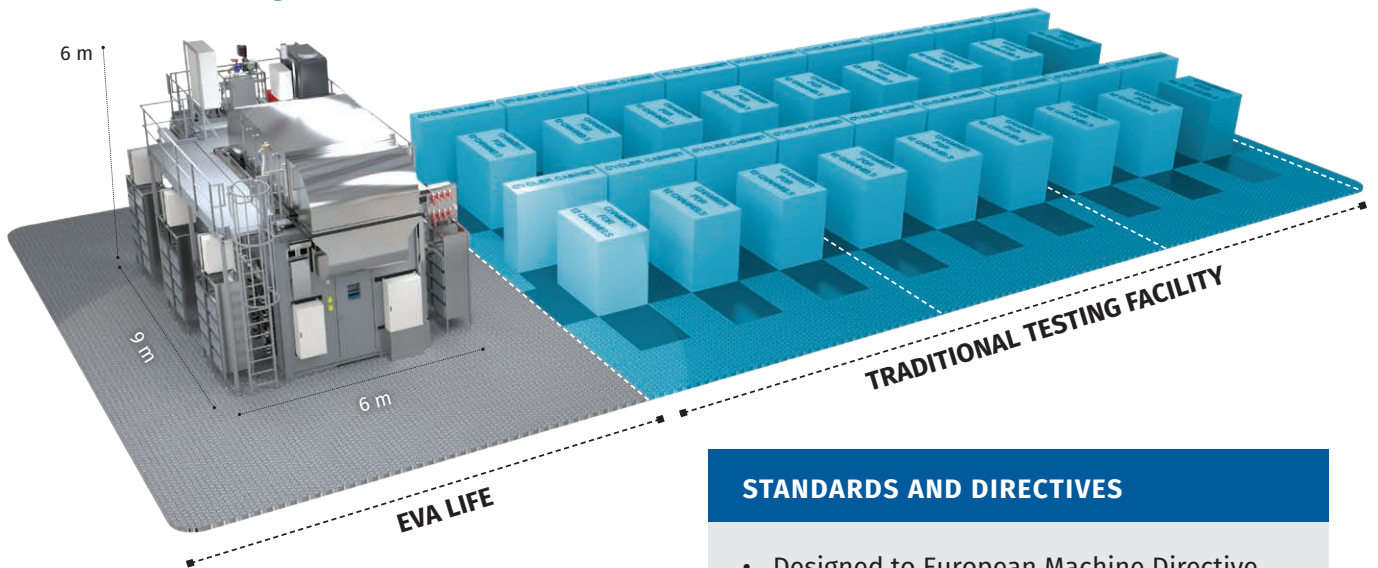
PROVENTIA EVA LIFE is a modular test facility solution for the performance and lifetime testing of production-level battery cells. Proventia EVA Life offers flexible testing capability, ensuring the performance, reliability, and safety of your battery cells. This truly turnkey test chamber is designed and built in collaboration with Keysight Technologies.

Compared to a traditional testing facility, Proventia EVA Life module saves time, with fast deployment and simultaneous individual cell

testing. In addition, it significantly saves space, operational resources and energy.

MAKE IT SIMPLE

1:3 footprint compared to the traditional facilities



FEATURES

Holds e.g. 200 channels for large prismatic cells or large pouch. Channels for cylindrical cells can also be added.

Environmental control system maintains a constant temperature between 20 and 40 °C with the accuracy of ± 2 °C

Remote video monitoring of interior

Individual cell loading, control, and measurement with Keysight BT2200 Charge-Discharge, Li-ion Cell Formation, and Test Solution

Keysight PathWave Cell Cyclor Manager

STANDARDS AND DIRECTIVES

- Designed to European Machine Directive ISO 2006/42/EY
- Fulfils safety automation functions according to ISO 13849

OPERATIONAL CAPABILITIES

Operation per cell

- Independently programmable with its own start time
- Cycling procedure and measurement of voltage, current, capacity, temperature and direct current internal resistance

Fixture per cell

- Manually operated quick-loading, single-cell contactor
- Loading and unloading without disturbing the cycling on neighbouring cells
- Contactor adjustable for a range of cell sizes



- Fire detection and suppression
- Gas detection
- Remote video monitoring of test space and device under test

- Test cell ventilation
- Easy operation through touchscreen controls and remote access
- Extensive self-diagnostics for infrastructure and safety systems
- Utilises Beckhoff hardware with global support for parts and service
- Individual cell temperature monitoring

Contact us

Get in touch, and we will be happy to tell you more!

Harri Kervinen
harri.kervinen@proventia.com
+358 20 781 0200