

## TDDB / HTRB HV TESTER High Voltage High Temperature Reliability Test System

### FEATURES & BENEFITS

- Modular system design
- Up to 244 measurement channels
- ATV own oven interface for various DUT holder boards
- High Voltage up to 3kV
- Temperatures up to 200°C
- Each measurement channel with individual bias source
- Safety Lock integration (Door Lock if HV on)
- Very small footprint
- All in one solution



The TDDB / HTRB HV Tester is used for long-term measurements with high voltage dc bias. During this long-term measurement, an adjustable bias voltage is applied to the DUTs (Device under Test). In an adjustable measuring interval, all measuring channels are measured sequentially and stored as a data set.

The Tester provides an ATV own oven interface for various DUT holder mainboards. These mainboards are customizable to provide sockets and connectors for your needs. For HTRB application additional Gate Bias sources are available.

# System overview

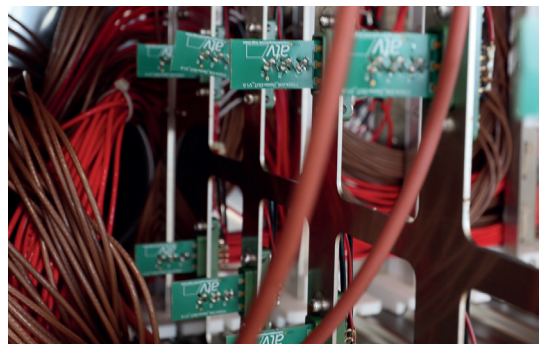
## Outside view



## Inside view with Coupon Mainboard

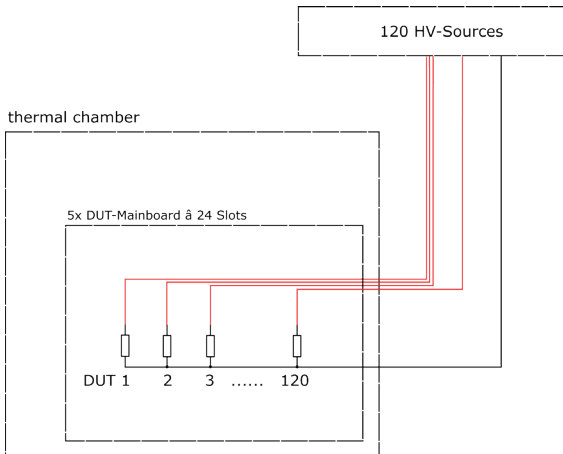


## Mainboard Slot System

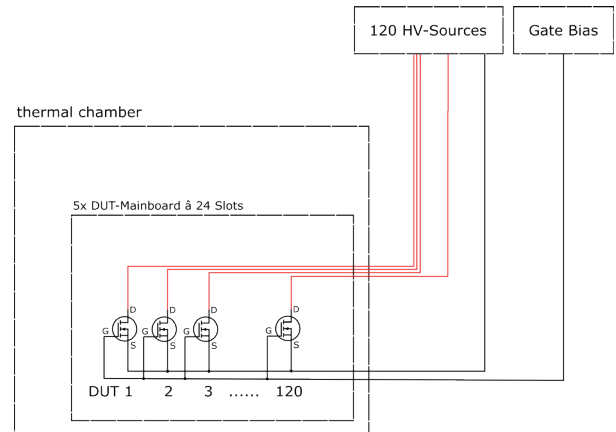


# Example configuration

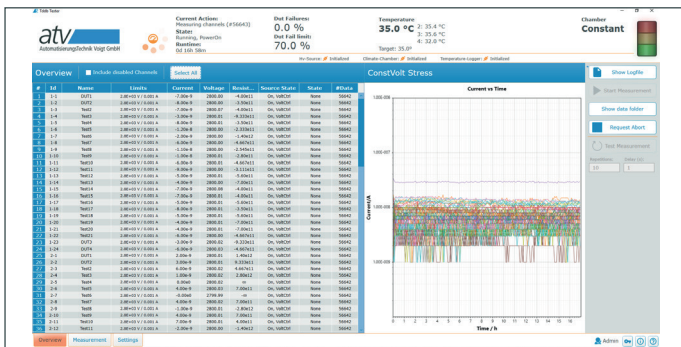
## TDDB



## HTRB / H<sup>3</sup>RB (HVHR SC)



## Software



- Standalone software environment
- Individual channel bias configuration
- Live measurement data feedback
- Remote controlled over interface
- Data export to CSV / EXCEL / customer specific data formats
- Two additional temperature sensors

## Technical data

### Electrical specification

- Bias voltage 0...3000 V individual for each channel
- Max. Bias current: max. 1mA
- Individual current limitation for each channel
- Short circuit protected
- Current measurement capability 10nA...1mA
- All max 244 channels captured within 1s

### General Data

- Stress temperature during operation: ambient to 200°C
- Full stainless steel / PTFE system design to avoid system contamination / oxidation
- Fully integrated oven on measurement system
- Dimensions (WxHxD): 825 x 1930 x 650 mm
- Weight: Approx. 220 kg

Electrical power consumption:

- Max. power measurement system: 850W
- Max. heat chamber: 2400W

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