

## VPL 3100

### Voltage protection & Limiter unit

Easy, quick and safe test setups up to 1.1 kV with all components in one box.  
Saves investment of existing 1.1 kV test fixtures and cabling with new 3 kV SMU.

#### FEATURES & BENEFITS

- Inputs for up to two 3 kV SMUs
- Up to 6 overvoltage protection modules for 200 V SMUs
- HV limitation configurable up to 1.1 kV
- Full triax interfaces for all inputs and outputs
- Adaptation between Keithley High Voltage cables (3 kV) and standard HV-Triax (1.1 kV)
- Remote control
- CE certified
- Optional: interface to light tower

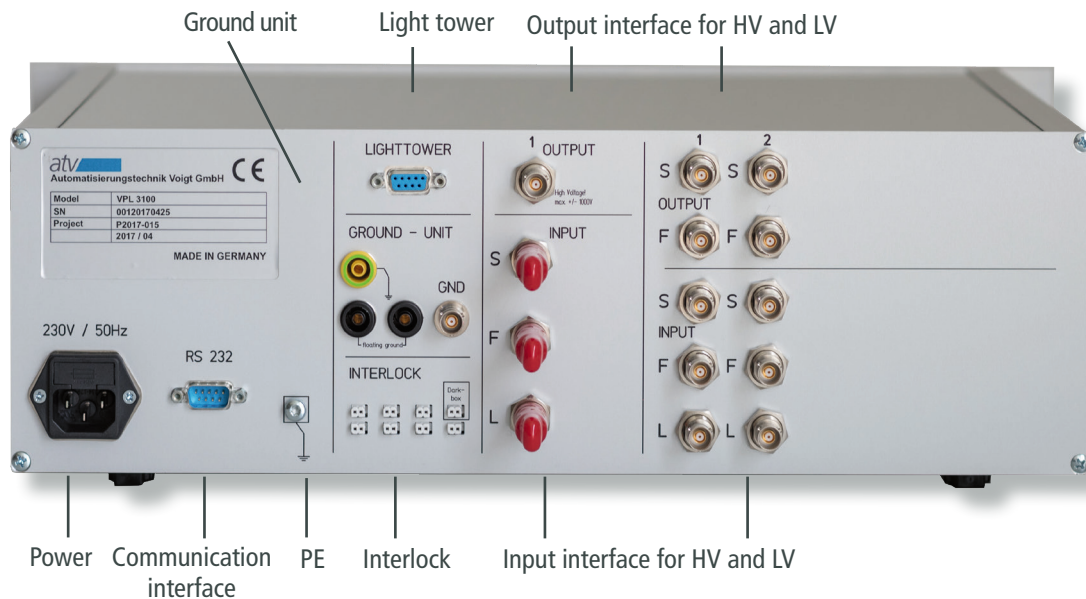
The voltage protection & limiter unit offers a cost effective and safe integration of up to two Keithley 3 kV SMUs 2657A into existing 3-lug standard triax test setups. The device safely limits the voltage by using a multi-staged and independent safety circuitry. The trigger level is configurable up to 1.1 kV.

Additionally, up to six 200 V-SMU (e.a. Keithley 26xx, SCS4200, 236/238) can be connected. With integrated protection circuitry they are reliably protected against overvoltage surges from the DUT.

The unit integrates a full interlock management for all existing test fixtures, protective covers, wafer prober and all connected SMUs.



## Rear view



## Technical data

### Electrical parameter

Max. HV-input	$\pm 3030 \text{ V}$
Max. LV-input	$\pm 200 \text{ V}$
HV-output	$\leq 1.1 \text{ kV}$ adjustable (by manufacturer)
LV-output	$\pm 200 \text{ V}$
Leakage current	$< 1 \text{ pA (@ } 1000 \text{ V)}$

## Safety features

### First stage

Overvoltage tripping event	40 V clamp and SMU interlock activation
External interlock	All SMU interlock activation

### Second stage

Overvoltage protection	200 V clamp with protection module for low voltage SMU Surge arrester 1.1 kV for high voltage SMU
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Automatisierungstechnik Voigt GmbH  
Heilbronner Straße 17  
01189 Dresden

phone: +49 351 2138640  
fax: +49 351 2138650  
email: atv@atv-systems.de