

SPECIFICATIONS

- Temperature range: 22.5°C ±2.5°C
- Operating humidity: 20% to 60%
- Warm-up time: 20 to 30 min
- Calibration period: 6 months
- Power supply: 230 Vac/50Hz
- Power cons.: 130W (max. 325W)

Range	Resolution	Accuracy
100mV	10μV	0.05%
1V	100μV	0.05%
10V	1mV	0.05%
100V	10mV	0.05%
320V	100mV	0.2%
10nA	1pA	1%
1μA	100pA	0.1%
1mA	100nA	0.05%
100mA	10μA	0.1%
10A	1mA	0.2%



TECHNISCHE UNIVERSITÄT
CHEMNITZ

WWW.TU-CHEMNITZ.DE/ETIT/SSE



OUR COMPANY

Steinbeis is one of the world's most successful service providers in knowledge and technology transfer. Close to 1,000 transfer companies established in the Steinbeis Network are highly specialized and provide research and development, consulting and expertise, as well as education and training for all technology and management fields. The Steinbeis companies are located mainly at research institutions, notably universities, which constitute the origins of knowledge for Steinbeis. Around 6,000 experts contribute practically to the transfer between science and industry. Acting as an umbrella organization over the Steinbeis Network is the non-profit Steinbeis Foundation launched in 1971, which is headquartered in Stuttgart, Germany.

The Steinbeis-Forschungszentrum Systementwurf und Test, based in Chemnitz, deals with specification, design, verification, testing and quality assurance of electronic components. Furthermore, it is engaged in validation and formal verification methods as procedures of system tests and the self-test. The close connection between science and industry and the related transfer of technology occupy a center position of the Steinbeis network.



Steinbeis

WWW.STEINBEIS.DE/SU/1734

Reichenhainer Straße 28

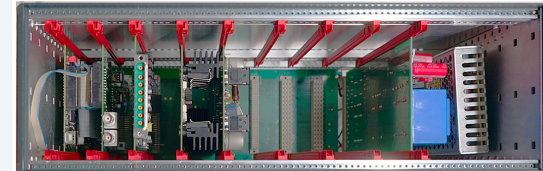
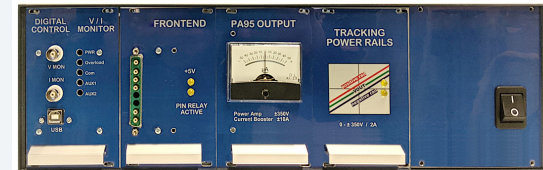
D-09126 Chemnitz

su1734@stw.de



Steinbeis

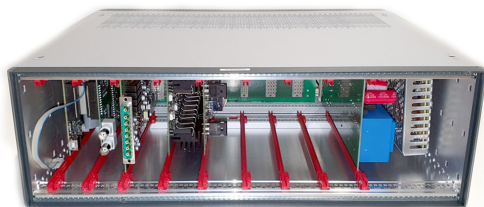
HVS HIGH VOLTAGE SOURCE/MEASURE UNIT



FOUR-QUADRANT PROGRAMMABLE DIGITAL CONTROL FULLY MODULAR

FEATURES

- Programmable Four-Quadrant Voltage and Current source and measure unit.
- -320V to +320V Voltage Range.
- -2A to +2A Continuous Current.
- Capable of up to 10A of pulsed current.
- High B/W Measure unit at 10 MS/s.
- Fully programmable.
- Built-in Function generator.
- Customizable clamping parameters.
- Supports Serial, USB and LXI interfaces.
- Fully modular design allowing for custom configuration with multiple options of output power, interfaces and software features according to customer needs.



APPLICATIONS

Production floor tester: Rapid characterization of semiconductors with Pass/Fail option.

Standalone supply: Configurable as bench power supply for wide range of operations.

Tester power supply: Can be interfaced with major multipin/multisite semiconductor testers.



st w Steinbeis

HVS

HIGH VOLTAGE SOURCE/MEASURE UNIT

FAST FPGA BASED DIGITAL CONTROL LOOP

ADVANTAGES OF DIGITAL CONTROL LOOP

- Ultra fast DAC and ADC arrays for smooth output waveform control.
- Predictive dynamic loop based on load
- On-the-fly variation of feedback conditions
- Fast and smooth settling times.
- Optimizable output speed for overshoot prevention.
- Complex array of compensation network for compatibility with many applications.

