

### Features:



- ❑ Broad range of output voltages
- ❑ Broad range of allowable loads
- ❑ High accuracy and stability
- ❑ Low harmonic distortion
- ❑ Multilevel protection system
- ❑ Integrated Digital Signal Generator
- ❑ Generation of harmonics

The **VIS Voltage Integrated Source** is a single-phase alternating voltage source, designed for use in electricity meter testing systems and in laboratories. The output voltage is isolated and independent of mains voltage.

The power stage of the source utilizes the Power Width Modulation (PWM) technology, which ensures high efficiency and thus contributes very small heat losses. The stage is driven by an onboard Digital Signal Generator. The control signal may be composed of harmonics of independently defined amplitudes and phases. The internal feedback loop utilizes the DSP technology. Advanced algorithms applied ensure high stability of amplitude and phase angle as well as low

distortions of the output voltage over a full range of allowable loads of various characters.

A multilevel protection system implemented protects the source against overload, short circuit, overheat and makes operation of the device reliable and safe.

The VIS device is equipped with an isolated serial interface and can be operated by a PC or other controlling device (host). A number of sources can be synchronized and operated together to form a poly-phase system. The communication protocol is provided to control output settings as well as to access all internal registers.

The VIS Voltage Integrated Source is accommodated in a 19 inch plug-in case.

	VIS-400	VIS-1200	VIS-2600
Technology of the power stage	PWM with digital feedback loop		
Output voltage range (Phase-Neutral) *	30 ÷ 350 V		
Output power for linear loads *	400 VA	1200 VA	2600 VA
Output voltage stability	<< 0.005% (integration time 150 s)		
Total Harmonic Distortion (THD)	< 0.3%		
Efficiency of the power stage	> 85%		
Frequency of the fundamental component *	45 Hz ÷ 65 Hz		
Phase angle **	0° ÷ 360°		
Harmonics	user programmable		
Control	isolated RS422/RS232		
Dimensions (H x W x D)	170 x 440 x 600 mm		300x440x600mm
Dimensions (H x W x D) with front panel and rear connectors	174 x 484 x 750 mm		307x484x750mm

\*) other values available on request

\*\*) for poly phase systems