SIBO Arbitrary 4-Quadrant Voltage and Current Amplifiers for Automotive testing.

The SIB 100-TS series are linear precision 4-quadrant power amplifiers for fast voltage and current signals -each positive and negative (bipolar). They also work as sink in applications to absorb power.
Extremely high bandwidth at highest power requirements, necessary for fast signals, characterize these products.
SIBO´s arbitrary power amplifiers include a huge memory of 1.000.000 data points to store arbitrary waveforms in the instrument itself. No arbitrary waveform generator or any other controlling instrument is needed. This makes these 4-quadrant amplifiers unique in the world market.
The easy to use ArbNet software allows generation of waveforms in a graphical user interface or via tabular input.

Output terminals isolated to 1000Vdc and capable of high DC voltage testing to LV123 using the SIBO unit for the ripple and an additional DC supply in parallel such as the Chroma 62000H.

Key Features:

DC ... 200 kHz full range bandwidth

DC ... 1 MHz (small signal -3 dB)

Output voltage 35 V / 70 V / 75 V / 1000 V (up to 1000V with additional DC supply in parallel e.g. Chroma 62000H Series).

Maximum Current 684 Amps

Modularly expandable to 18kW in master slave mode

Rising-/falling time 100 V/µs

Arbitrary function with 1.000.000 memory data points

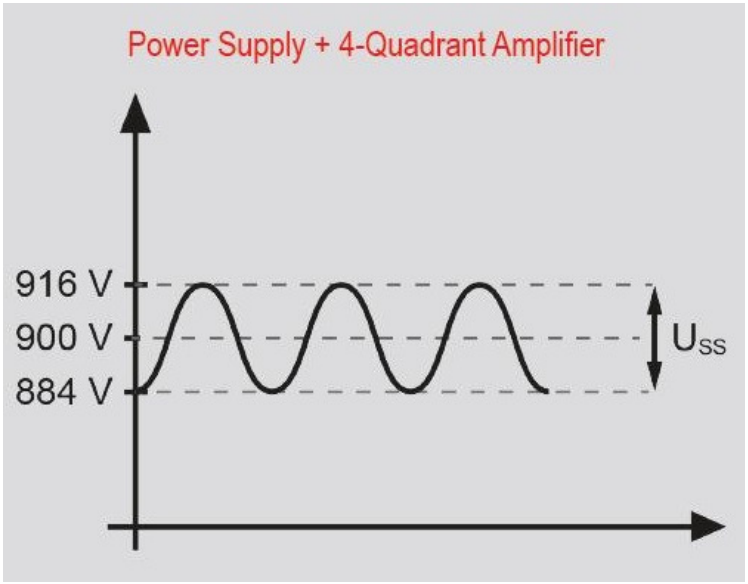
Memory with block mode for endless signals

USB interface standard

Analogue input 0 ... ±10 V for voltage or current control

Monitor outputs for voltage and current

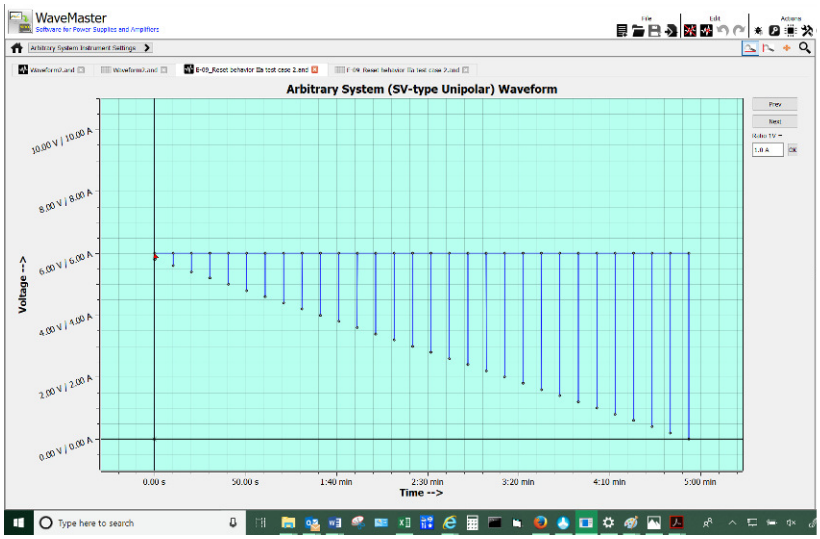
Isolated outputs for LV123 High Voltage testing



Chroma 62000H Programmable DC Power Supply.

Models available up to1000Vdc and 150kW

WaveMaster Software



Key Features:

Libraries available for LV 124, LV148, ISO 16750, GM 3172, ISO 7637.

Easy to use graphical waveform editor.

Command library for integration into automated test systems: (LabView, Vector CANoe, C#, C++, ANSI C, Python)

Simulation of imported oscilloscope signals

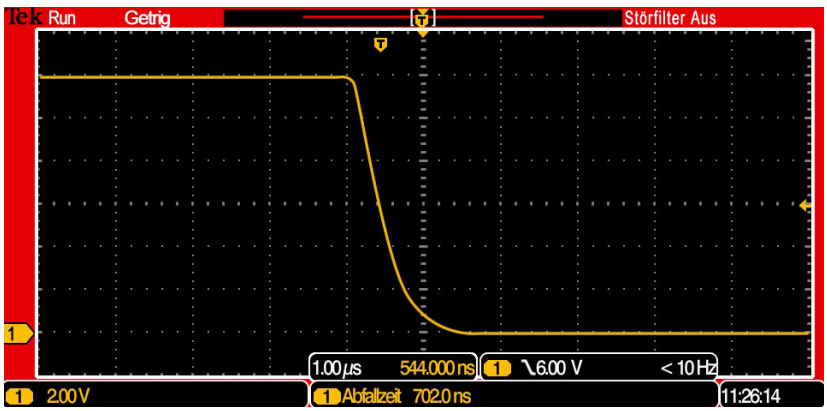
Waveform trigger caused by external TTL signal (rising edge) for synchronization

Macro function for execution of automated tests

Waveform Generation

The WaveMaster software is powerful and easy to create ordinary and complex waveforms. A graphical waveform editor and a tabular input allows waveforms to be produced very quickly. Import data from an oscilloscope or read in ASCII data files.

All functions of the 4-quadrant amplifiers are available for control through the WaveMaster software or through User developed software using the USB connection on the SIBO amplifier.



Signal Quality:

Rise time: < 1 µs,

Fall time: < 1 µs,

No overshoot / no undershoot