

**High-power technology**

AC Voltage sources GV1K series

- *powers from 600VA up to 300KVA*
- *single phase output*
- *output frequency 40 – 200Hz*
- *connectable in parallel up to 1MVA*
- *bandwidth >500Hz*
- *synchronizable for poliphase systems*
- *Sequencer timer*
- *Multiscale systems*
- *output waveforms sinusoidal or arbitrary*
- *access to PID regulation parameters*
- *easy maintenance and calibration*
- *accuracy better than 0.3%*
- *harmonic distortion lower than 0.3%*
- *insulated output*
- *software for PC control*

Typical applications

- Conversion 50/60Hz
- Test appliances and equipments with power supply different from the grid
- Trafo, coils, cores tests

Description

The voltage sources of the GV series are static constant voltage generators, the models cover the range from 600VA up to 300KVA. Synchronizable for poliphase systems or parallelable up to 1000KVA.

The GV sources deliver very stable AC voltages in all load conditions with output frequencies from 40 to 200Hz, providing sinusoidal or arbitrary waveforms. They can have up to two voltage scales with manual or automatic switching to suit the load conditions without penalizing the output power. Equipped with a modern and simple user interface combined with a large LCD display they offer the possibility to make multiple applications. They are designed in 19" built-in or table rack (low powers), in wheeled cabinet (medium powers) or cabinet, there are also available models with electronic and power separated for mounting on board. Ideal for laboratory applications, they play an important role in the final product test. Programmable via serial RS485, RS232, optional USB, LAN or optic fiber. The analog input (BOOSTER) allows the use as power amplifier and 8 programmable digital I / O ensure perfect integration with automatic test lines.

Applications

The GV source series is very robust with low costs and it is equipped with a sequencer timer that provides the ability to set with great simplicity voltage values and dispensing times with 1 mS resolution, allowing the programming of ramps, dips, loops to create test programs according to standards or test procedures.

Following informations are provided:

voltage supplied

output current

elapsed time

active and reactive power

load impedance

these features allow the use in many fields such as:

testing on various conditions of electrical equipment

clean power independent from the grid

coil, transformers, laminated cores tests

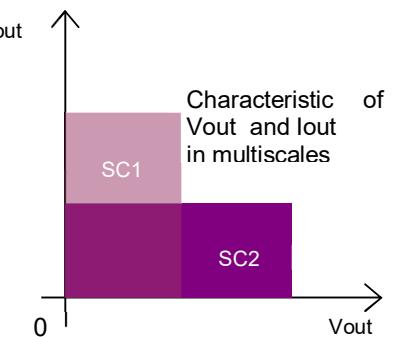
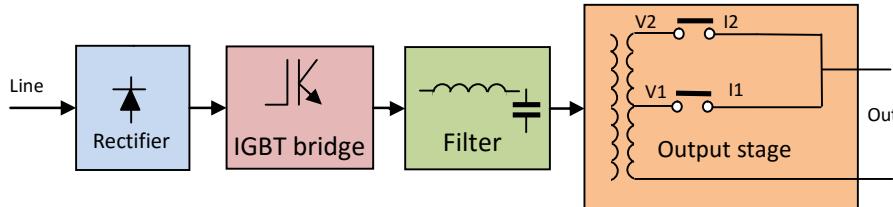
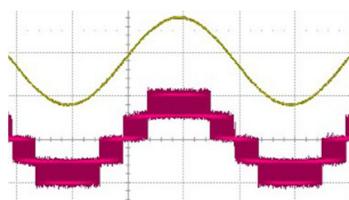
polyphase systems with timing and voltage values that

can be set on each phase

testing and calibration of measuring instruments

Main features

Output features		Current measurement	
Output voltage	100 ÷ 1000V	Range	+10% F.S.
Output power	600VA ÷ 300KVA	Resolution	0.5%
Overload	120% standard	Accuracy	0.5%
	Optional up to 300%		
Number of scales	1 ÷ 2		
Voltage resolution	0.3% F.S.		
Minimum settable voltage	0V		
Accuracy	0.3%F.S.		
Line regulation	Typ 0.1% F.S.		
Load regulation	Typ 0.2% F.S.		
Linearity	0.1% F.S.		
DC offset	0%		
Max output ripple HF	Typ 0.3%F.S.		
Output frequency			
Range	40 ÷ 200Hz		
Resolution	0.01Hz		
Accuracy	0.15%		
Bandwidth	2500Hz		
Max THD at 50-60Hz	Typ 0.2%		
Sequencer timer			
Range	1mS ÷ ∞		
Resolution	1mS		
Max step no.	30		
Mode	Auto repeat, ramp, pause- resume, continuous or pulsed		
Synchronism / Phase shift			
Synchronization	Auto / grid / external		
Phase shift	0 ÷ 360°		
Resolution	1°		
Accuracy	± 1°		
Start angle	0 ÷ 360°		
Resolution	1°		
Accuracy	± 1°		
		Maximum output voltage applicable / GND	It depends on the output voltage
Interfaces			
Communication	RS232 and 485 isolated		
Digital inputs	Optional USB, LAN, Optic fibre		
Digital outputs	4, 24V NPN programmable		
Booster for external	4, 24V PNP programmable		
Analog control	0 ÷ 20pk-pk (use as amplifier)		
Other	Trig-in, Trig-out for synchronism		



Principled and modulation schemes



High-power technology

Available Powers
600VA
1200VA
2500VA
5KVA
7.5KVA
10KVA
15KVA
20KVA
30KVA
50KVA
75KVA
100KVA
150KVA
200KVA
300KVA

Available standard voltages
150V
300V
500V
700V
900V
1000V
Double scale
150/300V
250/500V
350/700V
450/900V
500/1000V
Other voltages on request

AC Voltage sources GV1K series

Options / Finishings on request

/M-GI-SW	Software GImanager with single phase arbitrary function
/M3-GI-SW	Software GImanager with three phase arbitrary function
/Rack	Rack for built-in mounting (up to 5KVA)
/Rack-V	Rack for vertical built-in mounting (up to 5KVA)
/3-Rack	Cabinet with three phase sources
/LAN	LAN interface
/Rout	Output on the back side
/Fout	Output on the front side
/Sout	Access to particular output (to be specified)
/ATE	Without display
/Cons	Separate control unit (3 mt cable)
/USB	USB interface
/F-I/O	Connections I/O and serial on the front side
/R-I/O	Connections I/O and serial on the back side
/F-ms	Main switch on the front side
/R-ms	Main switch on the back side

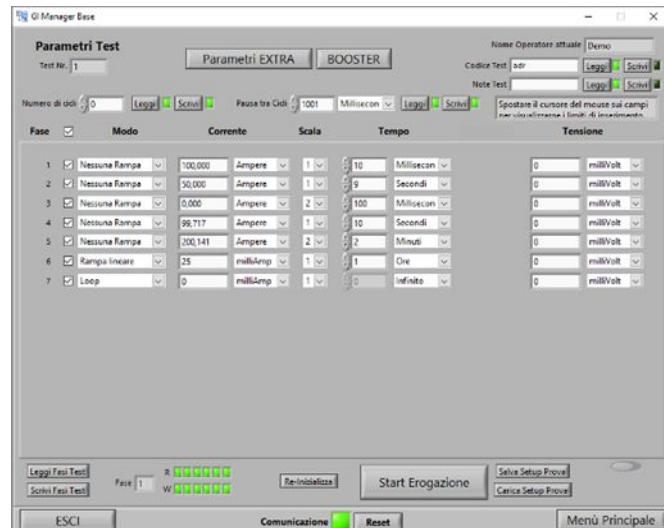
Available designs

- Horizontal built-in Rack
- Vertical built-in Rack
- Table Rack
- Wheeled Cabinet
- Cabinet
- Electronics and power separated for mounting on board



Screens

Software GVmanager



Other Zenone Elettronica products

- Current Sources GI1K series
- Pulsed Current Sources GI1K xxx SI series
- Voltage sources GIS1K series with bandwidth from DC up to 2.5KHz
- Single-phase voltage sources GTS1K series with bandwidth from DC up to 2.5KHz
- Frequency converters FVC1K three-phase series with high overload and output frequency up to 450Hz
- Fast Power Supplies AL3000 and AL3000R series with voltages from 10V to 1200V, currents up to 10KA and power ratings from 10KW to 1MW
- Fully bidirectional R Models

ZENONE ELETTRONICA HISTORY

Founded in 1990 in Mirabella Eclano (AV) by a staff with high experience in the power electronics sector, Zenone Elettronica has quickly become a leader in the development and manufacture of power electronics with a high technological level, focusing on testing equipments for measurement laboratories and production lines

ORDERS INFORMATIONS



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