

## ABOUT HPOWER

hpower actuators combine fastest response times in  $\mu\text{s}$ , superior kHz dynamics, high force generation in the range of tens of kN and nanometer precision in a way that is unmatched by any other linear driving system. The actuation can be obtained without any mechanical wear, making the actuators extremely durable. hpower products include ring and stack type actuators, as well as shakers, shock generators and high power amplifiers. hpower is the result of the collaboration between piezosystem jena and Piezomechanik GmbH and therefore combines centuries of piezo expertise with new innovations.

## HPOWER AMPLIFIER HVP 1000/200

Voltage amplifier for pulse generation



Voltage pulser HVP 1000/200

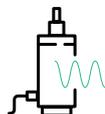
### Concept

The power amplifier **HVP 1000/200** has been designed to drive hpower actuators or other suitable loads with high charging currents for pulse-wise operation in "on-off" square-wave mode. In operation, a current of **200A** flows for a short time. The voltage at the hpower actuator increases in a few  $\mu\text{s}$ . The rising time and discharging time can be modified based on customers' requirement.

### Product highlights

- fast charging amplifier for pulse operation and shock wave generation
- output current: 200 A
- output voltage: +40 ... 1000 V
- designed for hpower shock actuators
- alternative ohmic resistor to adjust the rise time

### Applications:



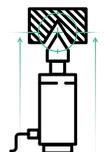
MODAL  
ANALYSIS



VIBRATION  
CONTROL



MATERIAL  
TESTING



MECHANICAL  
ENGINEERING

## Technical data of HVP 1000/200

	unit	HVP 1000/200
<b>output</b>		
voltage range	V	+40 ... +1000
max. output current	A	200
charging resistor	$\Omega$	5
plug	-	LEMO, SLS200 \ D-SUB 5W1
<b>input</b>		
voltage range	V	0 ... +5
voltage range "MOD.IN"	V	LOW = 0; HIGH =5
input resistance	k $\Omega$	1
plug	-	BNC
<b>monitor output</b>		
voltage range	V	0 ... +10
plug	-	BNC
<b>voltage supply</b>		
mains voltage	V AC	230 $\pm$ 10% @ 50/60 Hz
power switch	-	trigger switch / front panel
fuse	-	2 micro fuses 5 x 20 anti-surge fuse means 2A integrated into main socket
dimensions (w x d x h)	mm / inch	260 x 160 x 270 / 10.2 x 6.3 x 10.6
LED'S	-	HV: the high voltage output is activated IL: automated switching off of the voltage output because of overheating or overload

Get in touch with us  
and we will help configure  
the best solution.

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