

ABOUT HPOWER

hpower actuators combine fastest response times in μs , 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 RCV 1000/3

Switching amplifier with 3A output current



analog amplifier RCV 1000/3

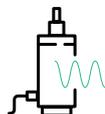
Concept

The switching amplifier **RCV 1000/3** is specially designed to be used with hpower actuators or other capacitive loads with at least $0.6 \mu\text{F}$ capacitance. With an output power of **3 kW** and its energy recovery principle, **RCV 1000/3** provides high performance for dynamic applications.

Product highlights

- high power for dynamic operations
- output current: 3 A
- output voltage: 0 ... 1000 V
- Noise $\leq 1 \text{ Vpp}$
- bandwidth: 2,000 Hz
- for actuators with $0.6 \mu\text{F}$ capacity and higher

Applications:



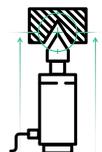
MODAL
ANALYSIS



VIBRATION
CONTROL



MATERIAL
TESTING



MECHANICAL
ENGINEERING

Technical data of RCV 1000/3

	unit	RCV 1000/3
output		
voltage range	V	0 ... +1000
DC-offset range	V	0 ... +1000
gain	-	100
max. output current	A	3
signal noise	Vpp	≤ 1 (depends on the capacity of the load)
plug	-	D-SUB 5W1
input		
voltage range	V	0 ... +10
input resistance	kΩ	1
plug	-	BNC
monitor output		
voltage range	V	0 ... +10
plug	-	BNC
voltage supply		
mains voltage	V AC	230 ± 10% @ 50/60 Hz
power switch	-	trigger switch/front panel
fuse	-	2 micro fuses 5 × 20 anti-surge fuse means 6A integrated into main socket
LED's	-	HV: the high voltage output is activated IL: automated switching off of the voltage output because of overheat or overload shortage: automated switching off of the voltage output because of short circuit
dimensions (w × d × h)	mm / inch	380 × 450 × 150 / 15 × 18 × 6
weight	kg / lbs	12.1 / 26.7

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

phone: +1 508-381-0425 (USA) +49 3641 6688-38 (GERMANY)

fax: +1 508-634-6868 (USA) +49 3641 6688-66 (GERMANY)

e-mail: givemore@hpowermotion.com