

zu beziehen bei  
sold by  
[www.conatex.com](http://www.conatex.com)



## High Voltage Power Supply



## User Instructions

Version 1.20  
English

## Overview

### Power Supply, 500V DC

This versatile power supply is particularly suitable for supplying the training and demonstration electron tubes. It provides two independently adjustable, floating direct voltages as well as an adjustable voltage for supplying the heating cathode. The direct voltages are stabilized, regulated, short-circuit proof and protected against external voltages.

The adjustable-heating-voltage output is protected against overload electronically. Analog instruments for displaying direct voltages are integrated. All outputs are galvanically isolated from each other.

#### Technical data

##### Outputs:

Low-voltage output:	0 to 500 V DC, continuously adjustable
Load capacity:	25 mA, short-circuit proof
Stability under full load:	< 0.1 %
Residual ripple:	< 50 mVrms
Low-voltage output:	0 to 50 V DC, continuously adjustable
Load capacity:	15 mA, short-circuit proof
Stability under full load:	< 0.1 %
Residual ripple under full load:	< 5 mVrms
Heating voltage output:	4 to 8 V DC, continuously adjustable
Load capacity:	3 A, short-circuit proof

Displays :	analog, class 2
Connections:	via 4 mm safety jacks
Power consumption:	50 VA
Dimensions:	85x325x190 mm
Weight:	4 kg

**Mains connection, 115 V, 50/60 Hz**

**Mains connection, 230 V, 50/60 Hz**

# Instructions for use

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## Safety notes

### WARNING:

Use caution when working with dangerous contact voltages.  
Observe the following notes when working:

Do not switch on the device until you have assembled the complete experiment setup.

Always switch off the device **before** touching any components of the circuit.

Do not put anything on top of the power supply, that could prevent natural air cooling of the device.

If any of the outputs are overloaded, turn off the device until the circuit breakers have cooled down.  
Make sure your circuit is assembled correct, before turning on the device again.

## Description



Mains switch with on-indication light emitting diode. When the light goes out, remove the mains cable and check the fuse in the fuse holder on the rear panel of the device.



4 to 8 V DC voltage output, maximum load 3 A.  
Continuously adjustable and short-circuit proof.  
Floating output.



ADJUST - regulation of 0 ... 50 V DC output.  
Continuous regulation with voltmeter to the left.



0 ... 50 V DC output, max 15 mA load.  
Continuously adjustable, electronic stabilized and short-circuit proof. Outputs are floating.

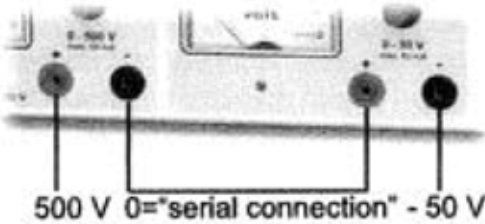


ADJUST - regulation of 0 ... 500 V DC output.  
Continuous regulation with voltmeter to the left

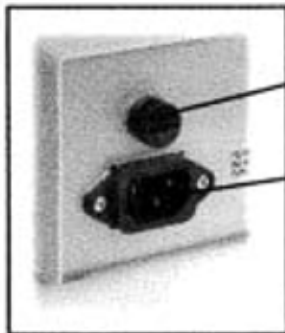
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0 ... 500 V DC output, max 25 mA load.  
Continuously adjustable, electronic stabilized and short-circuit proof. Outputs are floating.



500 V .... 0 .... - 50 V DC outputs when connected in serial. Outputs are floating with respect to ground. **Caution:** Do not connect any high voltages between any of the outputs and chassis/ground/earth !!! - or the internal transformer will be permanently damaged.



Primary fuse. Unscrew cap to replace fuse.

Mains input: 115 V, 50/60 Hz  
230 V, 50/60 Hz



Power cable is delivered with the power supply:  
US-type 5-15P / C13  
EU-type Schuko, IEC-320-C13

