WEISS

PSU 102

OPERATING MANUAL



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INTRODUCTION

Congratulations on purchasing the Weiss PSU 102 Power Supply!

The PSU102 is a universal non-switching, analog power supply. The voltage regulator circuitry is built with discrete components. It is very low noise but still capable to drive complex loads.

The mains transformer has a toroidal core for low radiation and low noise. The housing uses a double frame consisting of an external aluminium shell and an internal stainless steel frame for shielding and safety. The integrated heat-sink is oversized by a decent margin.

Features

- **Inputs:** There is one IEC type power input with an input voltage selector (nominal 115V or 230V), a power on/off switch and a primary fuse.

- **Outputs:** There are two output sockets which are wired in parallel. The sockets are made by the Swiss company Fischer and are of a very high quality.

  The output voltage can be set to 5V, 6V, 9V or 12V. The output current rating goes to 1.5A. The outputs are short circuit proof.

  A green LED indicates the power on condition.

- **Electronics:** A discrete, non-switching, linear voltage regulator of our own design is used. The voltage regulator circuitry is very low noise but still high speed in order to quickly

  follow high frequency load fluctuations. The electrolytic capacitors are low ESR types. The toroidal mains transformer ensures low magnetic radiation and low noise operation.

- **Mechanical Design:** The PSU102 employs a twin metal frame. The inner chassis is made of steel and acts as a very effective shield against electrostatic and electromagnetic radiation.

  The outer frame is made of massive anodized aluminium for additional shielding, resulting in optimal heat convection and beautiful looks.

- **Front-panel elements:**

  One green LED for “power on” indication

  A four position switch for selecting the output voltage

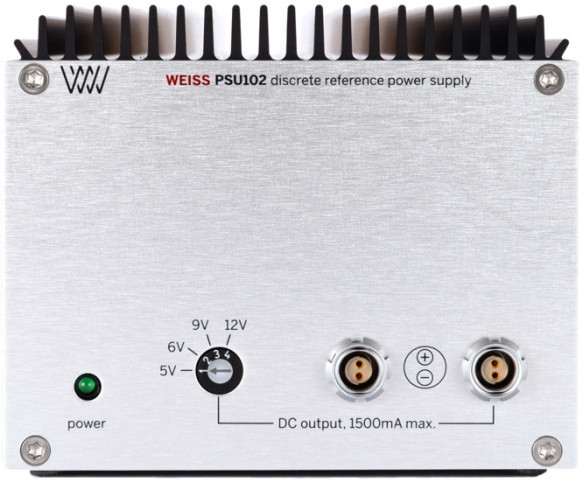
  Two Fischer sockets for power outputs

- **Back-panel elements:**

  A primary fuse

  A voltage selector 230V / 115V

  An IEC socket with integrated power switch


WEISS PSU102 discrete reference power supply
9V
12V
6V
5V
power
DC output, 1500mA max.


SHOCK HAZARD! DO NOT OPEN!
mains 50VA max.
fuse: slow blow
250mA @ 230V
500mA @ 115V
mains
voltage
230V
SNR:
made in switzerland



OPERATION

Unpacking and Setup of the PSU 102

Carefully unpack the PSU102. The following items should be enclosed:

- The PSU102 Power supply unit
- A output cable
- This Owner's Manual
- A Certificate of Guarantee

The PSU102 should be placed horizontally on a plane surface. Avoid putting any other equipment or any other material on top of the PSU102 as not to compromise the PSU102's heat convection system.

Mains Connection

Before connecting the mains cable make sure the voltage selector switch on the back of the unit is set to the appropriate voltage. If this is not the case then move the red switch to the appropriate position. Use the 115V position for mains voltages between 100V and 120V and the 230V position for mains voltages between 220V and 240V.

Output Connection

Before connecting the unit to be powered by the PSU102, make sure to select the proper output voltage at the PSU102. The selectable voltages are 5V, 6V, 9V and 12V. The enclosed cable is wired with the inner connector at the plus terminal.

If you need another connector or another wiring or a second cable contact your dealer. Once the proper voltage has been set connect the PSU102 to your unit. Make sure the connectors are firmly inserted. The Fischer connectors take some force to be fully plugged in. With Weiss units (INT202, INT203, INT204, DAC 204, DAC 205 units), the power connector can be screwed on. Now switch on the PSU102.

TECHNICAL DATA

Outputs:
(2) Fischer two pin sockets, wired in parallel. The corresponding Fischer plugs are: S 102 A051-130+ with the E3 102.5/3.5 cable clamp. See http://www.fischerconnectors.com
Output voltages selectable: 5V, 6V, 9V, 12V
Output current both sockets combined: 0 ... 1.5A

Power:
Mains Voltage: 100...120 / 200...240 Volt
Fuse rating: 500 mA slow blow at 115V setting and 250 mA slow blow at the 230V setting
Power consumption: 50VA max.