

Owners Manual Power Supply DF 1731 SB-3A



Introduce

Dear customer, we gratulate of getting Your new power supply. With this choice you have decited to a Product which combines goot design and clever technical features.

Please read the following instructions carefully and follow these instructions to get the troubleless fun of the system.

Features

- Two seperate voltage and current adjustable outputs.
- Fixed power output.
- Short circuit protected.
- Parallell or seriell operation of the two outputs
- Two displays for adjusted voltage and current

Specifications:

Input Voltage: 230V +/- 10% / 50 Hz

Output Voltage: 2x 0-30 V stepless adjustable, 1x5V fixed 2x 0-3 A stepless adjustable, 1x3 A max Setting accuracy: 2x 0-3 A stepless adjustable, 1x3 A max 2x 0-3 A stepless adjustable, 1x5V fixed 2x 0-3 A stepless adjustable, 2x 0-3 A

Savety Function: Current limiting

Display Accuracy: a) Voltage: LCD +/-1% + 2 digits

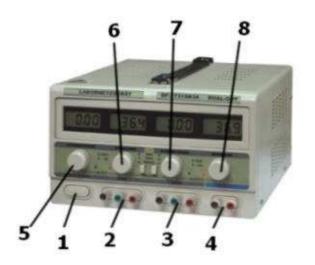
b) Ampere: LCD +/- 2 % +2 digits

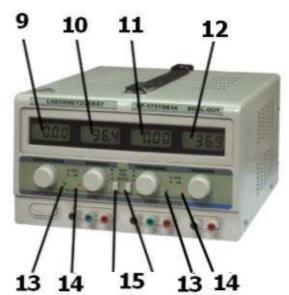
Dimensions: BxHxT 265x165x360 mm

Savety Device

- Connecting device only to a socket with grounded neutral conductor.
- Do not put device on moist or wet background.
- Do not turn out for any extreme temperatures of direct solar radiation or extreme humidity or wetness.
- Replace defect fuse only with the original value fuse. Please avoid short circuit of fuse and holder.
- Practice measuring work only in dry clothes and with recommened equipment.
- Please take care of good tempeature ventillation.
- Do not put any liquid near of the unit to avoid short circuit.
- Do not place the system near of strong magnetic fields.
- Before operation the system must be teperature stabilized to avoid humidity.
- Opening of the system and service is only allowed qualified sevice personal.

Operations and Displays

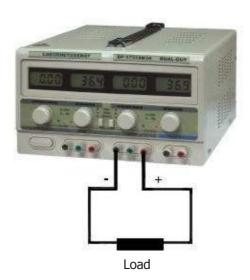




- 1. Power Switch
- 2. Output 2 (voltage and current adjustable)
- 3. Output 1 (voltage and current adjustable)
- 4. Output 3 (fixed output +5 Volt 3 A)
- 5. Adjustknob current output 2
- 6. Adjustknob voltage output 2
- 7. Adjustknob current output 1
- 8. Adjustknob voltage output 1
- 9. LCD-Display current output 2
- 10. LCD-Display voltage output 2
- 11. LCD-Display current output 1
- 12. LCD-Display voltage output 1
- 13. limited current display (LED is on when current ist limited)
- 14. limited voltage display (LED is on when voltage is limited)
- 15. Function switch for parallel, seriell and seperated mode

Connection of load

- At first connect your load according the figure.
- The voltage and current will be shown at the display.
- When the constant-current LED lights the current is limited to the adjusted level.
- In these case check the load if there is a short ciruit, or a resulting current which is to high for the power supply.



Mode with two separeted outputs

- Put **function-switch (15)** as shown in the figure to seperated mode.
- When you use supply as a constant-voltage source put Outputcurrentadjust (7) at first
- to MAX and turn the supply ON.

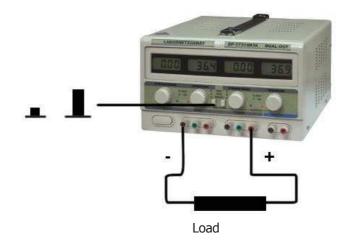


Functionswitch (15)

- Now put voltage to the right level.
- Now the constantvoltage LED (14) lights.
- When using supply as a consant-current-source put voltage-knob at MAX and current-knob at MIN.
- Now connect load and turn current-knob to get the needet current-level.
- The constant-voltage-LED (14) will get off and constant-current-LED (13) will light.
- When you use supply as a constant-voltage-source put **current-knob (7)** to MAX.
- As needed the current can be limited by turning the current-knob (7) to the right level.

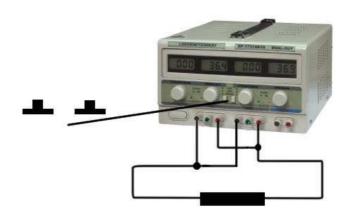
Seriell Mode

- Put **function-switch (15)** to position as shown in the figure.
- Now connect load as shown.
- With voltage-knob (8) from output 1 the voltage can be adjusted from 0 to 60 Volt.
 The current-knob(5) of output 2 must be adjusted to MAX.



Parallel Mode

- Put **function-switch (15)** as shown in the figure.
- In these mode the voltage is adjusted by **voltage-knob (8)** of output 1.
- Both outputs have the same voltage.
- The output-current will be adjusted by output 1.
- The maximum-current is 6 Ampere.
- In parallelmode the load must be connected at the two outputs as show. Other connection can damage supply.



Load