

30V 5A Regulated Bench Top Power Supply

Calibration Procedure



M 8303 | M 8305

Overview

A compact, efficient bench top power supply for use in servicing, repair and design of electronics. The low noise switchmode design offers excellent regulation for low current requirements. Fine/coarse voltage and current controls allow you to set the desired settings quickly. Backlit LCD ensures a clear view. Includes croc clip to banana leads.

Specifications

Input voltage	a.c. 220-240V @ 50Hz
Output voltage	0 - 30V d.c.
Output current max	5A
Supply regulation	CV \leq 1%+10mV
Load regulation	CV \leq 1%+5mV
Ripple	200mVp-p
Protection	Current limiting
Voltmeter	LCD \pm 1% +2 digits
Ammeter	LCD \pm 1% +2 digits
Temperature	0°C-40°C
Humidity	Less than RH80%
Operating time	8hrs
Dimensions	85 x 160 x 205mm

Cautions

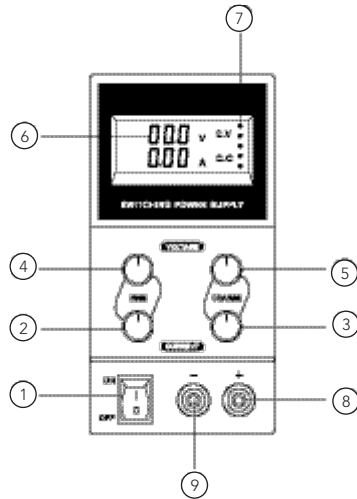
- Place unit in a dry well ventilated area.
- If a short circuit occurs whilst in use, the unit will be protected by a short circuit protection function. Turn the unit off, remove the cause of the short circuit and switch power supply back on.
- Do not use the unit for devices that require high current input for start up, such as motorised equipment.
- Do not use the unit to charge a car battery.

WARNING

**DO NOT BLOCK THE AIR CONVECTION SLOTS OR COOLING FAN.
THESE PREVENT OVER-HEATING.**

Front Panel

1. **Power switch:** turns unit on and off
2. **Current fine adjustment:** Fine tuning for the current limiting protection point.
3. **Current coarse adjustment:** Coarse adjustment for the current limiting protection point.
4. **Voltage fine adjustment:** Fine adjustment for the output voltage.
5. **Voltage coarse adjustment:** Coarse adjustment for the output voltage.
6. **3-Digit LCD meter:** Displays the voltage or current
7. **Current indication**
8. **Output positive terminal:** Red positive (+)
9. **Output negative terminal:** Black positive (-)



Calibration Method

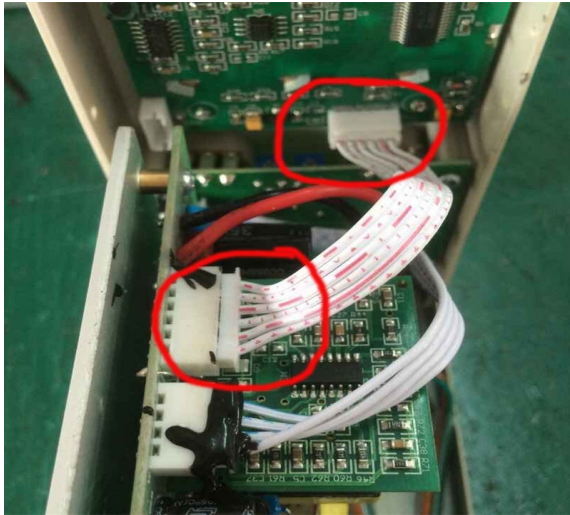


This photo shows the inside of the front panel of these benchtop power supplies. Note the small black calibration button between the tweezers. With the power switched on, push the button as shown (at front panel PCB). The power supply will recover to show ZERO Amps in no-load condition.

Current Zero Display Adjustment

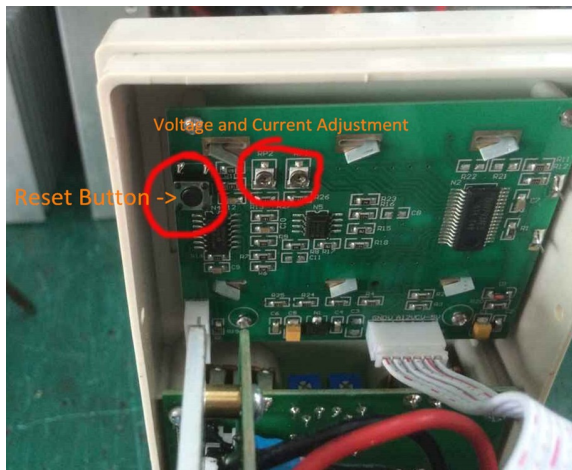
Open the housing case and follow below steps:

Step 1 – Please check the cable is plugged tightly into cable socket.



Step 2 – Please check the cable is plugged tightly into cable socket.

Step 3 – Push and hold the “Reset Button” of the PCB for around 3~5 seconds to return zero display.



Remarks

Please refer the below picture showing all potentiometers

