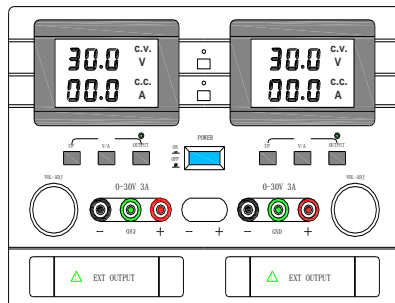


# Circuit Specialists Europe

## Triple Output DC Bench Power Supplies With Large LCD

**CSI3003XIII.....2×0-30VDC/0-3A & 1×5VDC/3A  
Regulated Power Supply**

**CSI3005XIII.....2×0-30VDC/0-5A & 1×5VDC/3A  
Regulated Power Supply**



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### General Description:

Your new DC Regulated Power Source provides accurate & stable DC power. It is ideal for test benches, laboratories, schools & repair facilities. The voltage control knob helps the user accurately dial in a precise voltage. The large easy to read LCD accurately displays the outputs (voltage & current).

This product is expertly manufactured for Circuit Specialists and incorporates SMT PC boards for reliable performance & long life

### Features:

- \*SMD adhesive sheet element technology for internal PCB construction
- \*Attractive yellow crystal displays show voltage & current
- \*Built in cooling fan
- \*Multi-loop high precision voltage regulation
- \*Progressive current regulation
- \*Dual terminal system. Safety test style or expandable screw terminals
- \*Overload protection circuit
- \*Low ripple voltage: <1mV P-P
- \*Output polarity: positive or negative
- \*Rugged reinforced metal frame construction

Specifications:	Voltage	Current	Display
CSI3003X3	2×0-30VDC 1×5VDC FIXED	0-3A 0-3A	100mV 10mV NONE
CSI3005X3	2×0-30VDC 1×5VDC FIXED	0-5A 0-3A	100mV 10mV NONE

Source effect:  $5 \times 10^{-4} = 2\text{mV}$

Load effect:  $5 \times 10^{-4} = 2\text{mV}$

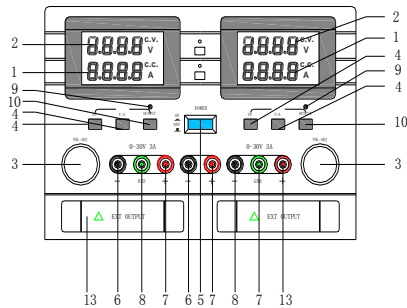
Ripple coefficient: <250uV

Stepped current: 30mA+/-1mA

## 2. Operation

### 2.1 Front Panel Controls.

- |   |                                   |
|---|-----------------------------------|
| (1) Current Indication                  | (2) Voltage Indication            |
| (3) Fine (10Turn) adjustment of Voltage | (4) Up/Down Adjustment of Current |
| (5) Power On/Off                        | (6) Negative Output Terminal      |
| (7) Positive Output Terminal            | (8) Ground Connection             |
| (9) Constant Current Indicator          | (10) Constant Current Switch      |
| (11) Parallel Switch                    | (12) Series Switch                |
| (13) External Power Output Connection   |                                   |



The unit has 2 output displays each with 2 readings: Voltage and Current.

There are 3 outputs: 2 x 0-30Volts with 0-3Amps and 1 x 5Volt DC fixed power output with up to 3Amps of current.

The 2 x 0-30VDC output can be switched to parallel or series allowing for up to 0-60 volts with up to 0-3Amps, or up to 0-30Volts with up to 0-6Amps.

This units fan turns on when the temperature reaches 140DegF or 60DegC.

It takes a standard 110VAC input only and is fuse protected.

### 2.2 Operating Procedure

2.2.1 For constant Voltage mode make sure #10 is depressed and the LED #9 is off.

2.2.2 For constant current mode make sure #10 is pressed and the LED #9 is on.

### Warranty Statement:

Circuit Specialists warrants this product to be free from defects caused by workmanship or production error for a period of 12 months after the initial purchase date.

Circuit Specialists will, at its' option, repair or replace any defective unit with a working unit after the defective product has been returned freight prepaid to Circuit Specialists, Should you have a defect that is covered by this limited warranty, please contact Circuit Specialists, ([www.circuitspecialists.eu](http://www.circuitspecialists.eu)) for an RMA number prior to returning the unit. Products that are damaged from misuse are not covered by this limited warranty.

### Attention:

The mains power must be switched off before servicing. Servicing should only be carried out by a qualified person. The unit should be stored in a dry and well ventilated place. The power cord should be removed if stored for long periods.

### Specifications:

Input Voltage	220-240 V AC	
Voltage Regulation	CV $\leq 5 \times 10^{-5}$ mV	CV $\leq 5 \times 10^{-5}$ mV
Load Regulation	CV $\leq 5 \times 10^{-5}$ mV	CV $\leq 5 \times 10^{-5}$ mV
Ripple & Noise	CV <0.5mVr.m.s	CC <2mAr.m.s
Protection	Current Limiting	
Voltage Indication Accuracy	LCD +/- 1%+2Digits	
Current Indication Accuracy	LCD +/- 2%+2Digits	
Ambient Temperature	0 ~ +40DegC	
Humidity	<90%	
Dimensions (Dual)	270(w)×180(H)×320(D)	
Weight	CSI3003X3: 12.5kg CSI3005X3: 13.5kg	

### Accessories:

Power cord	Set of Banana plug to Alligator Clips
Instruction Manual	Set of hook up wires for external hook up