

Circuit Specialists, Inc

Triple Output DC Bench Power Supplies With Large LCD

CSI3003X3.....2 x 0-30VDC/ 0-3A, 1 x 5VDC 3A, Regulated Power Supply

CSI3005X3.....2 x 0-30VDC/ 0-5A, 1 x 5VDC 3A, Regulated Power Supply



Circuit Specialists Inc

220 S. Country Club Dr., Bldg. #2

Mesa, AZ. 85210

Tel: 800-528-1417/ 480-464-2485

Fax:480-464-5824

Internet: www.CircuitSpecialists.com

General Description:

Your new DC Regulated Power Source provides accurate & stable DC power. It is ideal for test benches, laboratories, schools & repair facilities. The multi-turn 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, Inc., and incorporates SMT PC boards & a built in cooling fan for reliable performance & long life.

Features:

- *SMD adhesive sheet element technology for internal pcb construction
- *Attractive yellow large liquid crystal display shows voltage & current
- *Built in cooling fan
- *Multiloop 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 x 0-30VDC	0-3A	100mV 10mA
	1 x 5VDC FIXED	0-3A	NONE
CSI3005X3	2 x 0-30VDC	0-5A	100mV 10mA
	1 x 5VDC FIXED	0-3A	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

Warranty Statement:

Circuit Specialists, Inc. 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 Inc. 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, Inc. Should you have a defect that is covered by this limited warranty, please contact Circuit Specialists, Inc. (1-800-528-1417/ 480-464-2485) for an RMA number prior to returning the unit. Products that are damaged from misuse are not covered by this limited warranty.

General

Description :

Utilizes SMD technology
Single/ Dual Output Light and Compact
Output Polarity: Positive and Negative
LCD Display showing Voltage and Current value
Low Ripple Voltage Less Than 1mV P-P
Overload Protection Circuit
Applicable To School, Production Line, Laboratory and Maintenance

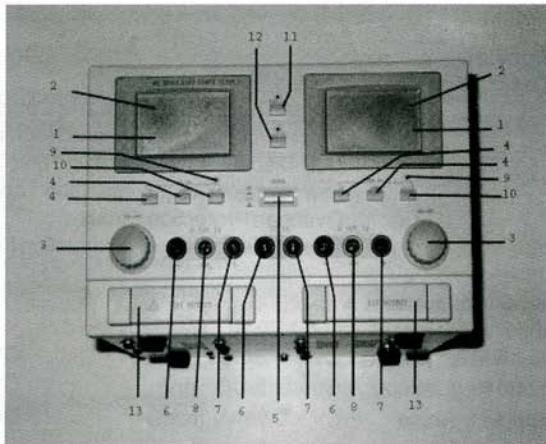
Specifications:

Input Voltage	110-127VAC +/- 1	
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 < 0.5 mV r.m.s.	CC < 2 mA r.m.s.
Protection	Current Limiting	
Voltage Indication Accuracy		LCD +/- 1% + 2 Digits
Current Indication Accuracy		LCD +/- 2% + 2 Digits
Ambient Temperature		0 ~ +40 ° C
Humidity	< 90%	
Dimensions (Dual)	270(W) x 180(H) x 320(D)	
Weight	CSI3003X3: 12.5kg CSI3005X3: 13.5kg	
Accessories	Instruction Manual, Power cord, Test Leads	

2. Operation

2.1 Front Panel Controls.

- (1) Current Indication
- (2) Voltage Indication
- (3) Fine (10 Turn) 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 display has 2 readings. One is Voltage and the second is Current. There are 3 outputs. 2 are 0-30 Volts with 0-3Amps. The third is a 5Volt DC fixed power output with up to 3Amps of current.

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

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

It takes a standard 110VAC input only. and it 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.

3. Attention:

3.1 The mains power must be switched off before servicing and servicing should be referred to a qualified person.

3.2 The unit should be stored in a dry and well ventilated place and the power cord removed from its power source for long periods of inactivity.

4. Accessories:

4.1 Power cord ----- one piece

4.2 Instruction Manual----- one piece

4.3 1 set of Banana plug to Alligator Clips

4.4 1 set of hook up wires for external hook up.