

# A729.D.001

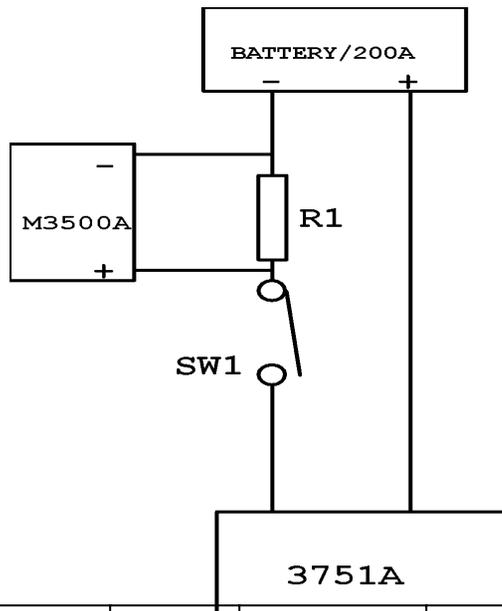
## Electronic Load 3751A Calibration Instruction

### A. Calibration Equipment:

1. Standard Voltmeter (Six and a half digital or above), M3500A used in this document
2. High Current Battery (200+A);
3. High Voltage Power Supply 3646A (Three Units)
4. 0.5mΩ Standard Shunt Resistance (30ppm,10w)

### B. Calibration Methods

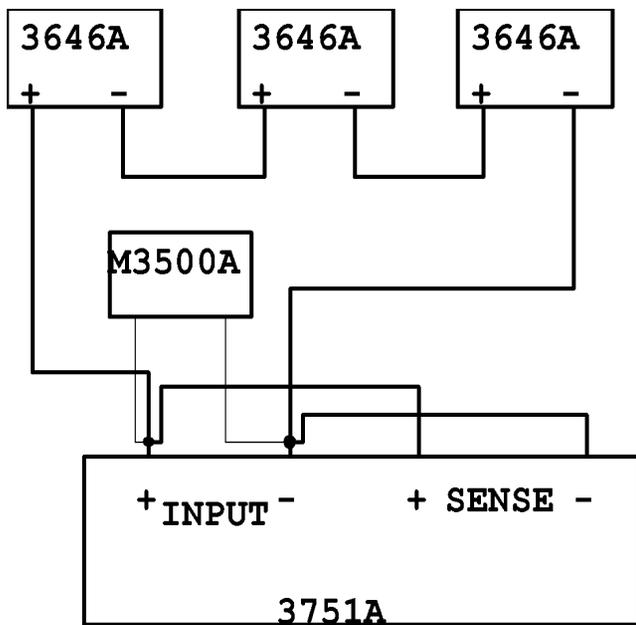
Current Regulation: See the Wiring Diagram below, for this document R1=0.5mΩ



a.	Press "Menu" key on 3751A, then select "Cali" to enter the calibration mode. Select "Curr" to enter the current calibration mode.
b.	Close switch SW1 and select "Step 1 0.20000A", measure the voltage drop on R1; using Ohms Law calculate the current value; input the computed/measured current value into the current frame and press "ENTER" to confirm;
c.	Press "▼" key on 3751A and select "Step 2 5.00000A", measure the voltage drop on R1; using Ohms Law calculate the current value; input the computed/measured current value into the current frame and press "ENTER" to confirm;
d.	Press "▼" key on 3751A and select "Step 3 0.20000A", measure the voltage drop on R1; using Ohms Law calculate the current value; input the computed/measured current value into the current frame and press "ENTER" to confirm;
e.	Press "▼" key on 3751A and select "Step 4 5.00000A", measure the voltage drop on R1; using Ohms Law calculate the current value; input the computed/measured current value into the current frame and press "ENTER" to confirm;
f.	Exit the menu by pressing the 'ESC' key to complete the current calibration.

Change Tag	Quantity	Change Mark	Signature	Date	Change Tag	Quantity	Change Mark	Signature	Date	Change Tag	Quantity	Change Mark	Signature
Fiction					<b>Electronic Load 3751A Calibration Instruction</b>					<b>A0729.D.001</b>			
Checked				Level									
Standard													
Approve													

Voltage Regulation: See the Wiring Diagram below, 3646A is used as the power supply for this document



- a. Press "Menu" key on 3751A, then select "Cali" to enter the calibration mode. Select "Volt" to enter the voltage calibration mode.
- b. Select "Step 1 0.50000V", measure the voltage on M3500A and insert measured voltage value into the voltage frame on the 3751A and press "ENTER" to confirm;
- c. Press "▼" key on 3751A and select "Step 2 20.0000V", measure the voltage on M3500A and insert measured voltage value into the voltage frame on the 3751A and press "ENTER" to confirm;
- d. Press "▼" key on 3751A and select "Step 3 0.50000V", measure the voltage on M3500A and insert measured voltage value into the voltage frame on the 3751A and press "ENTER" to confirm;
- e. Press "▼" key on 3751A and select "Step 4 190.0000V", measure the voltage on M3500A and insert measured voltage value into the voltage frame on the 3751A and press "ENTER" to confirm;
- f. Exit menu and complete the voltage calibration.

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Fiction					<b>Electronic Load 3751A Calibration Instruction</b>					<b>A0729.D.001</b>								
Checked																		
Standard																		
Approve																		

Note: If the values found in the calibration menu do not match the values given in each of the calibration steps above, you must first set these values into the calibration parameters before calibrating. You can do this by pressing the 'Menu' key, then selecting 'Def'. This will reset the parameter values to default, then go back into the Menu and select 'Para'. Fill in each frame with the values above, exit the menu back to the main display, then proceed with the calibration procedure.