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ASTRON VARIABLE LINEAR POWER SUPPLY

GENERAL

Astron Linear Power Supplies are general purpose 13.8VDC power supplies. The input voltage range of 110V units is 105-125VAC, 60Hz. 220V units (denoted by -220V/E in the part number) have an input voltage range of 200-240VAC, 50/60Hz.

Model	Cont. @ 13.8V	Cont. @ 10V	Cont. @ 5V	ICS* @ 13.8V
VS-20M-AP	16	9	4	20
VS-35M-AP	25	15	7	35
VS-50M-AP	37	22	10	50
VS-70M-AP	56	34	16	70

INSTALLATION

1. Do not connect the power supply to AC mains prior to installation of DC power cables.
2. Ensure that all equipment connected to the power supply is turned off.
3. Turn both the Current-Limit and Voltage knobs 100% open clockwise.
4. Power on the power supply, then adjust the Output Voltage.
5. Power on your connected equipment.

CURRENT-LIMIT KNOB AND OVER-CURRENT PROTECTION

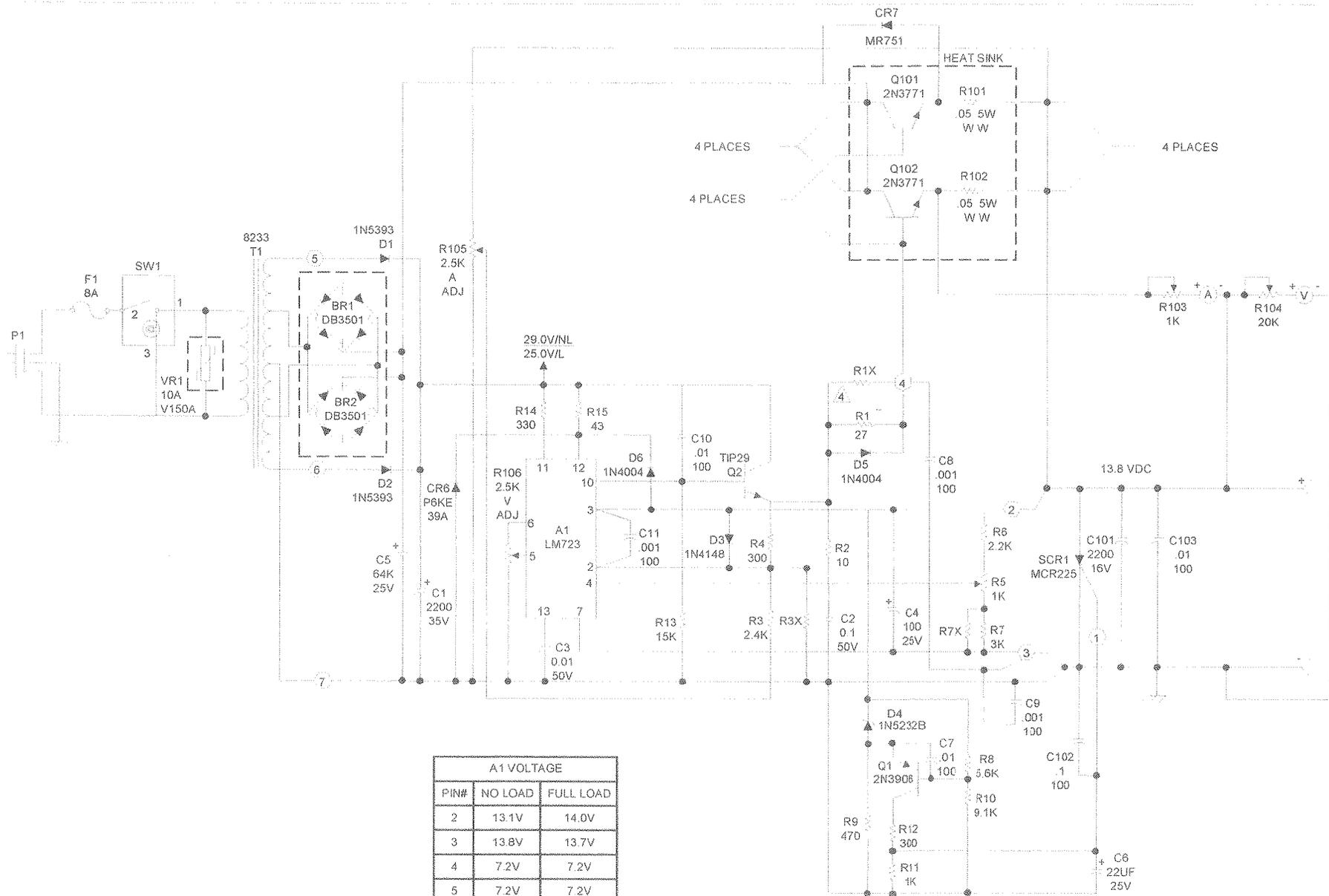
Fold-back current limiting will occur when the output current exceeds the ICS rating by 2 Amps OR when the current exceeds the current limit set by the Current-Limit Knob. To reset the over-current protection, remove the load from the power supply so that the output current draw drops to zero.

OVER-VOLTAGE PROTECTION

Crowbar Over Voltage protection will occur when the DC Output exceeds ~16.7VDC. To reset the crowbar over-voltage protection, turn off the power supply and wait 10 seconds. Then, power the unit on.

AUXILIARY POWER

AP models features additional auxiliary Anderson Power Pole connectors. The maximum amperage rating of the Anderson Power Pole connectors is 45 Amps each. You can find Anderson Power Pole kits online from most Ham radio equipment retailers.



A1 VOLTAGE		
PIN#	NO LOAD	FULL LOAD
2	13.1V	14.0V
3	13.8V	13.7V
4	7.2V	7.2V
5	7.2V	7.2V
6	7.2V	7.2V
7	0.0V	0.0V
10	14.8V	16.5V
11	29.0V	25.0V
12	29.0V	25.0V
13	16.1V	17.8V

UNLESS OTHERWISE NOTED

1. ALL RESISTORS 5% 0.5W/C.F. IN OHM.

2. ALL CAPACITORS IN MICROFARADS.

3. PRINTED CIRCUIT BOARD.

4. TO BE SELECTED IN TEST.

MODEL: VS-35M JANUARY 2000



IRVINE, CALIFORNIA