

1.3 ELECTRICAL SPECIFICATIONS

INPUT: 105 to 125 volts, 55 to 440 Hz. 210 to 240 volt operation is available by changing internal jumpers on the power transformer.

OUTPUT:

MODEL	OUTPUT		REGULATION		RIPPLE & NOISE	
	VOLTAGE	CURRENT	VOLTAGE	CURRENT	VOLTAGE	CURRENT
1513D	0-15V	0-13A	.005%	.02%	1mv P-P	10ma P-P
4050D	0-40V	0-5A	.005%	.02%	1mv P-P	10ma P-P
5015D	0-50V	0-1.5A	.005%	.03%	1mv P-P	.5ma P-P
6010D	0-60V 0-50V 0-20V	0-.5A 0-1A 0-1.5A	.005%	.03%	1mv P-P	.5ma P-P
6050D	0-60V 0-30V 0-15V 0-6V	0-1A 0-2A 0-3A 0-5A	.005%	.02%	1mv P-P	5ma P-P

OPERATING TEMPERATURE RANGE: 0 to 50 degrees C with no derating.

POLARITY: Either the positive or negative output terminal may be grounded or the supply may be "floated" up to 200 volts between any output terminal and chassis.

METERING: A front panel digital LED meter in conjunction with a meter function switch monitors output voltage or current with an accuracy of 1%.

CONSTANT VOLTAGE MODE

REGULATION: Better than .005% + 1 mV for line voltage variations of +/- 10% or 100% changes in rated load.

RIPPLE AND NOISE: Less than 1 mV peak to peak or 250 uV RMS at 60 Hz line; less than 500 uV RMS at 400 Hz line to 10 MHz.

SOURCE IMPEDANCE: Less than .002 ohms at DC, 0.1 ohms at 20 KHz, 1.0 ohms at 1 MHz.

RECOVERY TIME: The output voltage will return to within a 15 mV band of the original setting within 50 microseconds for a step load change of 10% to 100% of rating.

STABILITY: Less than 0.01% + 5 millivolts per 24 hours with constant line, load and ambient temperature after warm-up.

TEMPERATURE COEFFICIENT: Less than 0.03% + 0.5 mV per degree C.

REMOTE VOLTAGE PROGRAMMING: (Approximate value with external resistor)

Model 1513D	666 ohms/volt
4050D	250 ohms/volt
1015D	200 ohms/volt
6010D	160 ohms/volt
6050D	160 ohms/volt

CONSTANT CURRENT MODE

REGULATION: See chart.

RIPPLE AND NOISE: See Chart

SOURCE IMPEDANCE: In excess of 100,000 ohms at D.C.

STABILITY: Less than 0.05% + 500 microamperes per 24 hours with constant line, load and ambient temperature.

TEMPERATURE COEFFICIENT: Less than 0.03% + 300 microamperes per degree C.

REMOTE CURRENT PROGRAMMING: (Approximate value with external resistor.)

Model 1513D	385 ohms/ampere
4050D	1000 ohms/ampere
5015D	3300 ohms/ampere
6010D	1000 ohms/ampere
6050D	400 ohms/ampere

1.4 MECHANICAL SPECIFICATIONS

MODEL	H	W	D	WEIGHT
1515D	8.76"	7.75"	13.5"	30 LBS
4050D	8.76"	7.75"	13.5"	30 LBS
5015D	5.13"	8.38"	11.78"	15 LBS
6010D	5.13"	8.38"	9.0"	9 LBS
6050D	5.13"	8.38"	11.78"	15 LBS

FINISH: The unit is housed in a portable steel enclosure finished in blue enamel. The front panel is anodized aluminum.