

DCR-B SPECIFICATIONS
500-WATT SERIES

DCR Model	OUTPUT POWER			Constant Voltage Ripple (PAR) (mV rms)	Constant Current Ripple (PAR) (mA rms)	TEMPCO		REMOTE PROGRAMMING	
	Voltage (Vdc)	Current (A dc)				(mV/°C)	(mA/°C)	(Ohms/V)	(ohms/A)
		40°C	71°C						
10-40B	0-10	40	20	65	260	1.5	12	1200	10
20-25B	0-20	25	13	65	82	3.0	7.5	600	16
40-13B	0-40	13	6.6	90	30	6.0	3.9	300	30
60-9B	0-60	9	5	125	19	9.0	2.7	200	46
80-6B	0-80	6	3.3	150	12	12.0	1.8	150	68
150-3B	0-150	3	1.7	300	6	22.5	0.9	80	134
300-1.5B	0-300	1.5	0.8	700	4	45.0	0.45	40	270
600-.75B	0-600	0.75	0.4	1200	2	90.0	0.225	20	530

NOTES:

1. Overvoltage protector
2. Average weight, 40 lbs.

3. Optional Input
4. At 115V input

COMMON SPECIFICATIONS**Voltage Mode:**

- Regulation: 0.03% with load change (NL-to-FL or FL-to-NL) and a full line-voltage change combined.
- Resolution: 0.05% of E_o max. (typical)
- Drift(% E_o max): 0.1% typical, for 8 hours after 30-minute warmup with constant line, load, and ambient temperature.
- Transient Response: 50ms (typical) to return to ±1% band for a step load change 50%-100% or 100%-50% of full load (10V models ±3% band, 20V models ±2%). Below 60 Hz, ripple and transient response characteristics will deteriorate by a factor of (60/f)² where f is the input frequency.

Current Mode:

- Regulation: 0.25% with 0-95% compliance-voltage change and ±10% line voltage change combined.
- Resolution: 0.05% of I_o max (typical)
- Drift (% I_o max): 0.15% (typical)

General:

- Series Operation: T
- Parallel Operation: m
- Remote Sensing: f
- Operating Temperature: 8
- Storage Temperature: r
- Cooling: Convection
- Isolation Voltage:
- Finish: Bonderize-B
- Overload/ Short-circ: 1
- Overvoltage Protecto

Table 1-1 Specifications

DCR-B SPECIFICATIONS

500-WATT SERIES

MPCO (mA/°C)	REMOTE PROGRAMMING (Ohms/V) (ohms/A)		SIGNAL (Volt In/ Volt Out)	Efficiency (% Typ.)	INPUT POWER			OUTPUT IMPEDANCE (Typical)		
					Voltage Range (Vac) Note 3	Current Max (Aac) Note 4	Power Factor (Typ.)	120Hz	1kHz	10kHz
12	1200	10	1/1	61	103-127	8.7	.65	.025	.020	.060
7.5	600	16	1/2	71	103-127	9.4	.65	.030	.025	.075
3.9	300	30	1/4	71	103-127	9.8	.65	.050	.040	.125
2.7	200	46	1/6	75	103-127	9.7	.65	.075	.060	.180
1.8	150	68	1/8	77	103-127	8.3	.65	.125	.110	.300
0.9	80	134	1/15	74	103-127	8.2	.65	.560	.530	.620
0.45	40	270	1/30	74	103-127	8.9	.60	1.90	1.80	2.0
0.225	20	530	1/60	74	103-127	8.9	.60	8.4	8.0	8.5

3. *Optional Inputs: 208V, 220V, 230V (Options M1, M2, M3 respectively).*

4. *At 115V input.*

SPECIFICATIONS

General:

Series Operation: To 200 Vdc Maximum. (150 and 300 volt models, two in series).

Parallel Operation: By master-slave or straight parallel, four units maximum.

Remote Sensing: 8 volts drop maximum per load lead, but not to exceed 10% Eo max.

Operating Temperature Range: 0°C to 71°C

Storage Temperature: -40°C to +85°C

Cooling: Convection

Isolation Voltage: 1000Vdc input to output.

Finish: Bonderize-Black semi-gloss with white lettering

Overload/ Short-circuit Protection: Adjustable current limiting with automatic recovery.

Overvoltage Protector: Fully adjustable OVP on all models.