Table 1-1 Specifications

DCR-B SPECIFICATIONS
2700-WATT FAN-COOLED
SERIES

DCR Model	OUTPUT POWER Voltage (Vdc)	Current (Adc) 40°C	Current (Adc) 71°C	Constant Voltage Ripple (PARD) (mV rms)	Constant Current Ripple (PARD) (mA rms)	TEMPCO (mV/°C)	TEMPCO (mA/°C)	REMOTE PROGRAMMING (Ohms/V)	REMOTE PROGRAMMING (Ohms/A)	SIGNAL (Volt In/ Volt Out)	Efficiency (% Typ.)	INPUT POWER Voltage Range (Vac) Note 3	INPUT POWER Current Max. (Aac) Note 4	INPUT POWER Power Factor (Typ.)	OUTPUT IMPEDANCE (Typical) 120Hz	OUTPUT IMPEDANCE (Typical) 1kHz	OUTPUT IMPEDANCE (Typical) 10kHz
7-300B	0-7	300	150.0	65	2,800	1.1	90.0	1714	0.33	0.7/1	65	187-229	27.5	.62	.0015	.0015	.0015
20-115B	0-20	115	58.0	65	375	3.0	35.0	600	3.5	1/2	70	187-229	26.5	.60	.007	.006	.018
40-70B	0-40	70	40.0	90	157	6.0	21.0	300	6.0	1/4	77	187-229	29.7	.58	.012	.010	.030
60-45B	0-60	45	26.5	125	93	9.0	13.5	200	9.0	1/6	80	187-229	29.0	.56	.016	.019	.040
80-33B	0-80	33	20.0	150	61	12.0	9.9	150	12.0	1/8	81	187-229	27.2	.57	.024	.022	.055
150-18B	0-150	18	10.0	300	36	22.5	5.4	80	22.0	1/15	83	187-229	27.0	.58	.060	.057	.066
300-9B	0-300	9	5.5	700	21	45.0	2.7	40	44.0	1/30	83	187-229	27.4	.57	.360	.340	.400
600-4.5B	0-600	4.5	2.5	1,200	9	90.0	1.35	20	89.0	1/60	85	187-229	26.8	.57	1.00	.980	1.10

Notes:
1. Overvoltage protector internal.
2. Average Weight, 130 lbs.
3. Optional Inputs: 220V (M2 OPTION), 230, (M3 OPTION)
4. At 208V input.

COMMON SPECIFICATIONS

Voltage Mode:

Regulation: 0.03% with load change (NL-toFL or FL-to-NL) and a full line-voltage change combined.

Resolution: 0.05% of Eo max. (typical)

Drift (% Eo 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 Io max (typical)

Drift (% Io max): 0.15% (typical)

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: See paragraph 3.2.2

Operating Temperature Range: 0°C to 71°C

Storage Temperature: -40°C to +85°C

Cooling: Fan Assist

Isolation Voltage: 1000 Vdc input to output.

Finish: Bonderize-Black semi-gloss with white lettering.

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

*For master-slave series operation of the 7-300B, consult factory.