II. SPECIFICATIONS

ELECTRICAL SPECIFICATIONS:

MODEL NUMBER	Output Voltage (Vdc)	Output Current (Adc)	Constant Voltage Regulation[1]	Constant Current Range[2] (Adc)	Constant Current Regulation[9]	Constant Voltage Ripple	Constant Current Ripple (Typ)	Temperature Ambient (°C)	Temperature Coef. MV/°C	Typical Efficiency %	Input Voltage 1φ (Vac)
DCR 20-125A	0-20	0-125	±.075% or ± 8mV[3]	0-125	± 125mA	.4% + 20mV	0.5%	0-55[5]	3	62	187-229, 207-253
DCR 20-250A	0-20	0-250	± .10% or ± 8mV[3]	0-250	± 500mA	.8% + 60mV or 160mV[4]	2.0%	0-55[5]	8	66	3φ187-229, 207-253[6]
DCR 40-10A	0-40	0-10	±.075% or ±15mV[3]	0-10	± 20mA	.4% + 40mV	0.5%	0-55[5]	6	60	105-125
DCR 40-20A	0-40	0-20	±.075% or ±15mV[3]	0-20	± 25mA	.4% + 40mV	0.5%	0-55[5]	6	60	105-125
DCR 40-35A	0-40	0-35	±.075% or ±15mV[3]	0-35	± 35mA	.4% + 40mV	0.5%	0-55[5]	6	67	105-125
DCR 40-60A	0-40	0-60	±.075% or ±15mV[3]	0-60	± 60mA	.4% + 40mV	0.5%	0-55[5]	6	66	187-229, 207-253
DCR 40-125A	0-40	0-125	± .10% or ±15mV[3]	0-125	± 250mA	.4% + 60mV or 160mV[4]	1.0%	0-55[5]	16	72	3φ187-229, 207-253[6]
DCR 40-250A	0-40	0-250	± .10% or ±15mV[3]	0-250	± 500mA	.4% + 60mV or 160mV[4]	1.0%	0-55[5]	16	75	3φ187-229, 207-253, 342-418, 390-440, 414-506[7]
DCR 40-500A	0-40	0-500	± .10% or ±15mV[3]	0-500	±1000mA	.4% + 60mV or 160mV[4]	1.0%	0-55[5]	16	79	3φ342-418, 390-440, 414-506[8]
DCR 60-13A	0-60	0-13	±.075% or ±15mV[3]	0-13	± 20mA	.4% + 60mV	0.5%	0-55[5]	9	64	105-125
DCR 60-25A	0-60	0-25	±.075% or ±15mV[3]	0-25	± 25mA	.4% + 60mV	0.5%	0-55[5]	9	69	105-125
DCR 60-40A	0-60	0-40	±.075% or ±15mV[3]	0-40	± 40mA	.4% + 60mV	0.5%	0-55[5]	9	68	187-229, 207-253
DCR 80-5A	0-80	0-5	±.075% or ±20mV[3]	0-5	± 15mA	.4% + 80mV	0.5%	0-55[5]	12	64	105-125
DCR 80-10A	0-80	0-10	±.075% or ±20mV[3]	0-10	± 20mA	.4% + 80mV	0.5%	0-55[5]	12	64	105-125
DCR 80-18A	0-80	0-18	±.075% or ±20mV[3]	0-18	± 25mA	.4% + 80mV	0.5%	0-55[5]	12	71	105-125
DCR 80-30A	0-80	0-30	±.075% or ±20mV[3]	0-30	± 30mA	.4% + 80mV	0.5%	0-55[5]	12	69	187-229, 207-253
DCR150-2.5A	0-150	0-2.5	±.075% or ±30mV[3]	0-2.5	± 15mA	.4% + 150mV	0.5%	0-55[5]	23	68	105-125
DCR150-5A	0-150	0-5	±.075% or ±30mV[3]	0-5	± 15mA	.4% + 150mV	0.5%	0-55[5]	23	66	105-125
DCR150-10A	0-150	0-10	±.075% or ±30mV[3]	0-10	± 20mA	.4% + 150mV	0.5%	0-55[5]	23	72	105-125
DCR150-15A	0-150	0-15	±.075% or ±30mV[3]	0-15	± 25mA	.4% + 150mV	0.5%	0-55[5]	23	72	187-229, 207-253
DCR300-1.25A	0-300	0-1.25	±.075% or ±60mV[3]	0-1.25	± 15mA	.4% + 300mV	0.5%	0-55[5]	45	64	105-125
DCR300-2.5A	0-300	0-2.5	±.075% or ±60mV[3]	0-2.5	± 15mA	.4% + 300mV	0.5%	0-55[5]	45	68	105-125
DCR300-5A	0-300	0-5	±.075% or ±60mV[3]	0-5	± 15mA	.4% + 300mV	0.5%	0-55[5]	45	73	105-125
DCR300-8A	0-300	0-8	±.075% or ±60mV[3]	0-8	± 20mA	.4% + 300mV	0.5%	0-55[5]	45	73	187-253, 207-253

Notes:
1. With load change (0 to full or full to 0) and line voltage change (±10%) combined.
2. At 55°C. For range at other temperatures see Unit Rating chart.
3. Whichever is greater.
4. Whichever is smaller.
5. See Unit Rating chart for safe loads at temperatures to 71°C.
6. Optional auxiliary chassis permits operation from 342-418, 390-440 or 414-506 input.
7. Input 187-229, 207-253, or 414-506 at 57-63Hz (0-40Vdc output)
   Input 390-440 at 50-63Hz (0-40Vdc output)
   Input 342-418 at 50-63Hz (0-36Vdc output)
8. Input 342-418 at 50-63Hz (0-30Vdc output)
   Input 390-440 at 50-63Hz (0-37Vdc output)
   Input 414-506 at 57-63Hz (0-40Vdc output)
9. From 0-95% load voltage change and ±10% line voltage change combined.

MECHANICAL SPECIFICATIONS:

MODEL NUMBER	DIMENSIONS (inches) Width	Height	Depth	WEIGHT (lbs.) Net	Shipping
DCR 20-125A	19	10½	20	169	200
DCR 20-250A	19	17½	22	312	342
DCR 40-10A	19	5¼	15	55	65
DCR 40-20A	19	5¼	18	77	90
DCR 40-35A	19	7	18	102	120
DCR 40-60A	19	7	20	131	150
DCR 40-125A	19	17½	22	318	348
DCR 40-250A	19	22¾	24	485	515
DCR 40-500A	25	43¾	23	805	835
DCR 60-13A	19	5¼	18	77	90
DCR 60-25A	19	7	18	100	120
DCR 60-40A	19	7	20	130	150
DCR 80-5A	19	5¼	15	56	65
DCR 80-10A	19	5¼	18	77	90
DCR 80-18A	19	7	18	98	120
DCR 80-30A	19	7	18	121	140
DCR150-2.5A	19	5¼	15	52	65
DCR150-5A	19	5¼	18	77	90
DCR150-10A	19	7	18	95	120
DCR150-15A	19	7	18	115	135
DCR300-1.25A	19	5¼	15	52	65
DCR300-2.5A	19	5¼	18	77	90
DCR300-5A	19	7	18	95	120
DCR300-8A	19	7	18	115	135

RESOLUTION (voltage): 0.05% of Output Voltage maximum.

RESOLUTION (current): 0.5% of Output Current maximum.

PARALLEL OPERATION: Up to 4 units may be operated in parallel. However, derate each unit to 90% of maximum current.

SERIES OPERATION: Following is the number of units that may be operated in the series mode:

2 ..... 300 volt units
2 ..... 150 volt units
4 ..... 80 volt units
4 ..... 60 volt units
5 ..... 40 volt units
5 ..... 20 volt units

REMOTE SENSING: The output voltage may be regulated at a load point remote from the power supply.

TRANSIENT RESPONSE: 30 milliseconds (to return to ±1% band with change from half to full or full to half load).

INPUT FREQUENCY RANGE: 50 to 63 Hz.
Below 60 c/s ripple and transient response will deteriorate by a factor of $(60/f)^2$, where "f" is the input frequency.

RFI: Meets MIL-I-26600 and MIL-I-6181D

STABILITY: 0.05% of maximum output voltage — for 8 hours, after ½ hour warmup.