DRB50-1

SPECIFICATIONS

CA800-01-01B

	ITEMS / MODEL			DRB50-5-1	DRB50-12-1	DRB50-24-1	DRB50-48-1
1	Nominal Output Voltage		V	5	15	24	48
2	Maximum Output Current		A	6	3.4	2.1	1.05
3	Maximum Output Power		W	30	51	50.4	50.4
4	No Load Input Power related to Erp (115/230VAC)		W	0.5	0.3		0.5
5	Efficiency (Typ) (115/230VAC) (* 1)		%	79 / 80	88 / 90	88 / 90	90 / 91
6	Active Average Efficiency related to Erp (115/230VAC)		%	-	89 / 88	88.5 / 87	89 / 87
7	Input Voltage Range (* 2)		—	85 ~ 264VAC(47-63Hz) or 120 ~ 373VDC(withstand 300VAC surge for 5 seconds)			
8	Input Current (Typ) (115/230VAC) (* 1)		A	0.9 / 0.55			
9	Inrush Current (Typ) (230VAC) (* 3)		—	50A Cold start			
10	PFHC		—	Designed to meet IEC61000-3-2			
11	Power Factor (Typ) (115/230VAC) (* 1)		—	0.6 / 0.5			
12	Output Voltage Range		V	5.0 - 5.5	12.0 - 15.0	24.0 - 28.0	48.0 - 52.8
13	Ripple and Noise (Typ) (* 1,4)		mV	30	20	30	40
	Ripple and Noise (Max) (* 4)	0<Ta≦70°C	mV	120	150	240	480
		-20≦Ta≦0°C	mV	170			
14	Line Regulation (* 4, 5)		mV	50	150	240	480
15	Load Regulation (* 4, 6)		mV	50	150	240	480
16	Transient Response Deviation(25~75% load change)		mV	250	750	1200	2400
17	Transient Response Recovery Time		ms	1 , to within 2%of settled value, 25-75% load change			
18	Temperature Coefficient		—	Less than ±0.02%/°C			
19	Over Current Protection (* 7)		A	105%~			
20	Over Voltage Protection (* 8)		V	5.75 ~ 6.75	16.0 ~ 18.8	30.0 ~ 35.0	54.0~68.0
21	Hold-Up Time (Typ) (* 1)		—	20ms(TYP.) @ 100VAC input voltage, full load, Ta=25°C			
22	Leakage current (* 9)		—	Less than 1.5mA at 240VAC .			
23	Indication		—	DC O.K. LED (Green)			
24	Parallel Operation		—	No			
25	Series Operation		—	Possible			
26	Operating Temperature (* 10)		—	-20 - +70°C -20℃:50%, -10℃~ +55℃:100%, +70℃:50%			
27	Operating Humidity		—	5 ~ 95 %RH (No condensing)			
28	Operating Altitude		m	3000			
29	Storage Temperature (*11)		—	- 40 ~ +85°C			
30	Storage Humidity		—	5 ~ 95 %RH (No condensing)			
31	Cooling		—	Convection			
32	Withstand Voltage		—	Input - Output : 3.0kVAC (20mA), Input - FG : 1.5kVAC (20mA) Output - FG : 500VAC (100mA) 1 min.			
33	Isolation Resistance		—	Input - FG, Input - Output and Output - FG: More than 100MΩ (500VDC) at 25°C and 70%RH			
34	Vibration		—	At no operating,10-55Hz(sweep for 1 min.):19.6 m/s^2(2G) Constant, X,Y,Z each 1 hour			
35	Shock (In package)		—	294m/s^2(30G).11ms half sine			
36	Pollution		—	Degree 2, material group 3			
37	Safety		—	Approved by UL60950-1, CSA22.2 No.60950-1-07(2nd edition), EN60950-1, UL508			
38	Line Dip		—	Designed to meet SEMI-F47 (200VAC line only)			
39	EMI		—	Designed to meet EN55022-B,CISPR22-B			
40	Immunity		—	Designed to meet EN61000-4-2 (Level 4), -3 (Level 3), -4 (Level 4), -5 (Level 3 , Level 4), -6 (Level 3), -8 (Level 4), -11(class 3)			
41	Weight (Typ)		g	175			
42	Dimension (W x H x D)		mm	30 x 75 x 90 (Refer to Outline Drawing)			

*** Read instruction manual carefully , before using the power supply unit.**

= NOTES=

* 1 : At Maximum Output Power, nominal input voltage, Ta = 25°C.

* 2 : For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 240VAC, 50 / 60Hz on name plate.

* 3 : Not applicable for the in-rush current to Noise Filter for less than 0.2ms.

* 4 : Please refer to Fig A for measurement of line & load regulation, ripple and noise voltage.
Ripple & noise are measured at 20MHz by using a twisted pair of load wires terminated with a 0.1uF and 100uF capacitor.

* 5 : 85 - 264VAC, constant load.

* 6 : No load - Full load (Maximum power), constant input voltage.

* 7 : Output hiccup with automatic recovery.
Avoid to operate at overload or dead short for more than 30 seconds.

* 8 : OVP circuit will shutdown output, manual reset (Re-power on).

* 9 : Measured by each measuring method of UL and EN(at 60Hz), Ta=25°C.

* 10 : Refer to Output Derating Curve(CA800-01-02) for details of output derating versus ambient temperature.
- Load (%) is percent of Maximum Output Power and Maximum Output Current (Item 2 and 3).
Do not exceed derating of Maximum Output Power and Maximum Output Current.

*11 Refer to Output Derating Curve(CA800-01-02) for low temperature start up capablity.

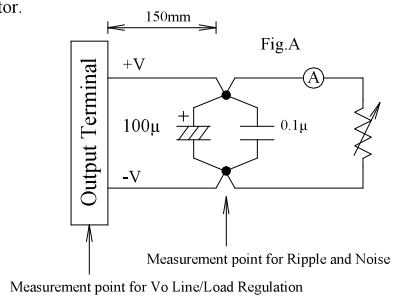


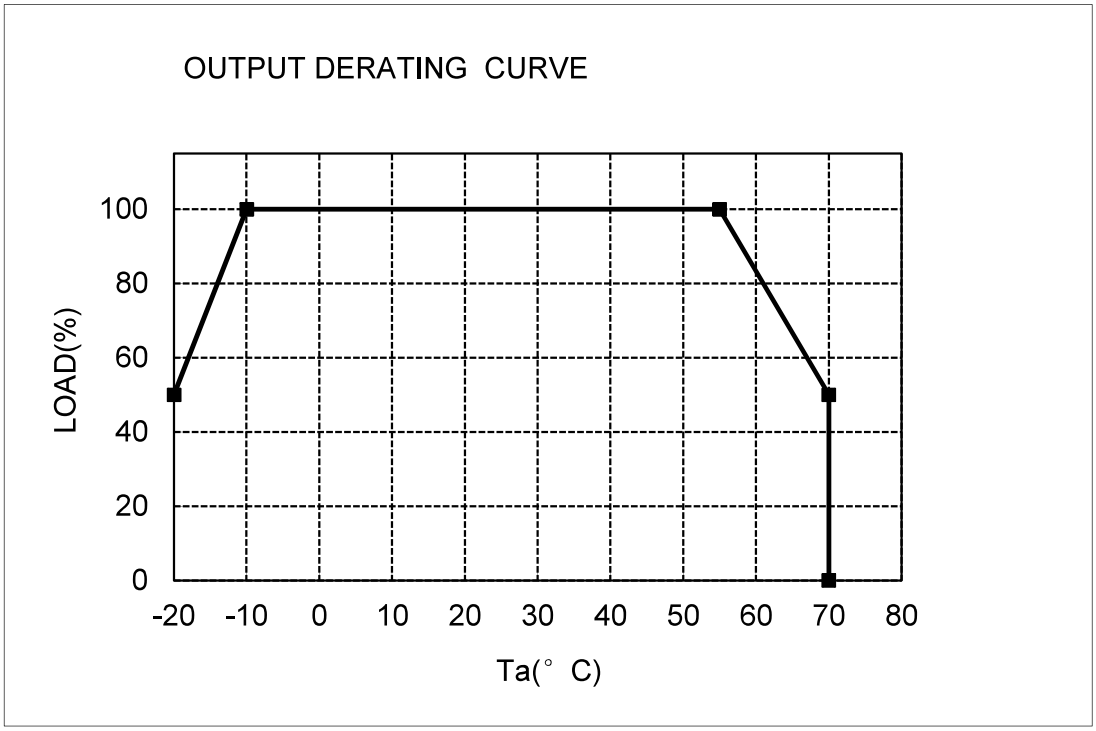
Fig.A

DRB50-1

OUTPUT DERATING

CA800-01-02

Ta(°C)	LOAD(%)
-20	50%
-10~55	100%
70	50%



Standard Mounting