DRB100-1

SPECIFICATIONS

CA801-01-01C

	ITEMS / MODEL		DRB100-24-1
1	Nominal Output Voltage	V	24
2	Maximum Output Current	A	4.2
3	Maximum Output Power	W	100.8
4	No Load Input Power	W	0.5
5	Efficiency (Typ) (115/230VAC) (* 1)	%	89.8 / 91.2
6	Active Average Efficiency related to Erp (115/230VAC)	%	87 / 87
7	Input Voltage Range (* 2)	–	85 ~ 264VAC(47-63Hz) or 120 ~ 373VDC(withstand 300VAC surge for 5 second)
8	Input Current (Typ) (115/230VAC) (* 1)	A	1.2 / 0.6
9	Inrush Current (Typ) (230VAC) (* 3)	–	40A cold start
10	PFHC	–	Designed to meet IEC61000-3-2
11	Power Factor (Typ) (115/230VAC) (* 1)	–	0.98/0.93
12	Output Voltage Range	V	24.0~28.0
13	Ripple and Noise (Typ) (* 1,4)	mV	30
	Ripple and Noise (Max) (* 4)	mV	240
14	Line Regulation (* 4, 5)	mV	240
15	Load Regulation (* 4, 6)	mV	240
16	Transient Response Deviation(25~75% load change)	mV	1200
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)	–	105% ~
20	Over Voltage Protection (* 8)	V	30.0 ~ 35.0
21	Hold-Up Time (Typ) (* 1)	–	20ms @ 100VAC input voltage, full load, Ta=25℃
22	Leakage Current (* 9)	–	Less than 1.5mA at 240VAC .
23	Indication	–	DC OK LED(green)
24	Parallel Operation	–	No
25	Series Operation	–	Possible
26	Operating Temperature (* 10)	–	-20 - +70℃ -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/s2 (2G) Constant, X,Y,Z 1hour each
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 VCCI-B, FCC-B, EN55011/EN55022-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	320
42	Dimension (W x H x D)	mm	45x 75 x 100 (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(CA801-01-02) 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.
- 100% load start up at -40°C is possible. However, it may not fulfil all the specifications.

* 11 : Refer to output derating curve(CA801-01-02) for low temperature start up capability.

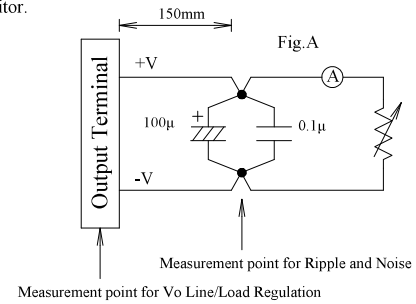


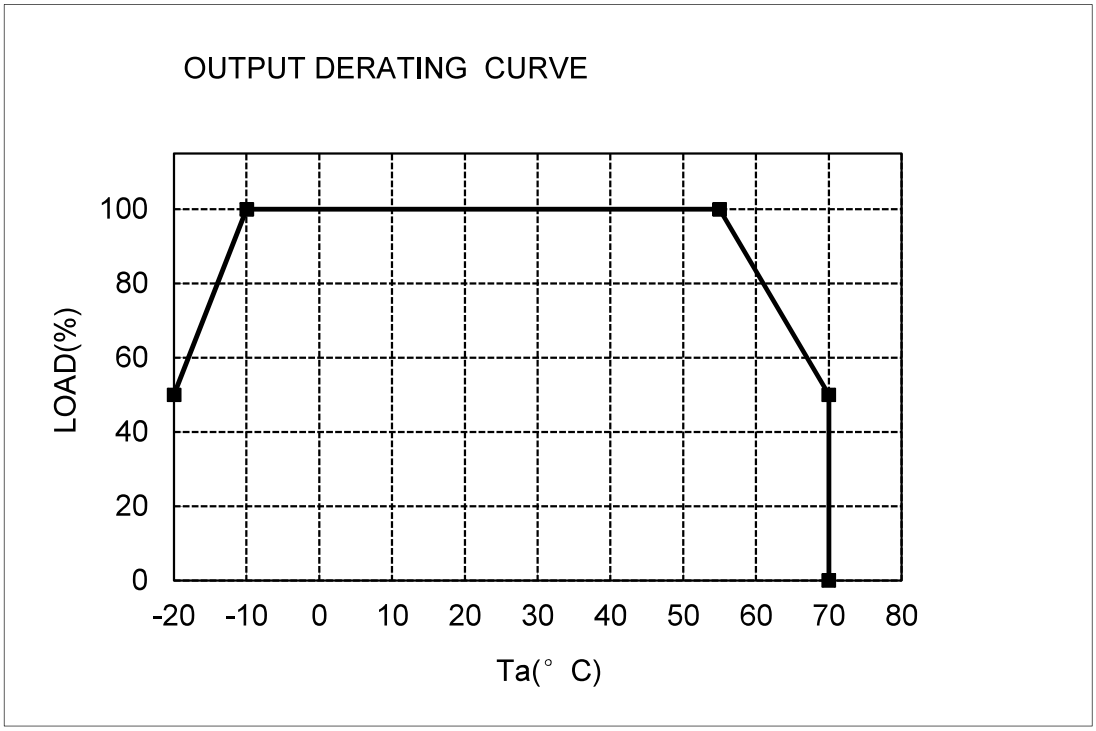
Fig.A

DRB100-1

OUTPUT DERATING

CA801-01-02

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



Standard Mounting