DRB30-1

SPECIFICATIONS

CA799-01-01B

	ITEMS / MODEL			DRB30-12-1	DRB30-24-1
1	Nominal Output Voltage		V	12	24
2	Maximum Output Current		A	2.5	1.25
3	Maximum Output Power		W	30	30
4	No Load Input Power		W	0.3	
5	Efficiency (Typ)	(115/230VAC) (* 1)	%	86 / 88	88 / 90
6	Active Average Efficiency related to Erp	(115/230VAC)	%	87 / 87	88 / 89
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	0.55 / 0.33	
9	Inrush Current (Typ)	(230VAC) (* 3)	–	40A cold start	
10	PFHC		–	Designed to meet IEC61000-3-2	
11	Power Factor (Typ)	(115/230VAC) (* 1)	–	0.56 / 0.46	
12	Output Voltage Range		V	12.0~15.0	24.0~28.0
13	Ripple and Noise (Typ)	(* 1,4)	mV	40	30
	Ripple and Noise (Max)	(* 4)	mV	120	240
14	Line Regulation	(* 4, 5)	mV	120	240
15	Load Regulation	(* 4, 6)	mV	120	240
16	Transient Response Deviation(25~75% load change)		mV	600	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	16.0~18.8	30.0~35.0
21	Hold-Up Time (Typ)	(* 1)	–	20ms(Typ.)@ 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/s^2 (2G) Constant, X,Y,Z each 1hr	
35	Shock (In package)		–	294m/s^2(30G).11ms half sine	
36	Pollution		–	Degree2, 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 3,4), -6 (Level 3), -8 (Level 4), -11(class 3)	
41	Weight (Typ)		g	130	
42	Dimension (W x H x D)		mm	21x 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.

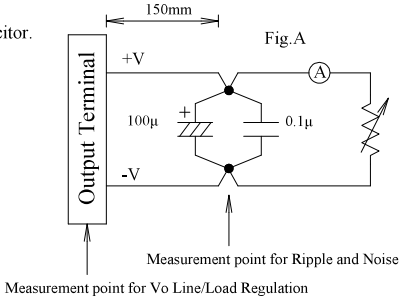
* 7 : Output hiccup with automatic recovery.
Avoid to operate at overload or dead short for more than 30 seconds.

* 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(CA799-01-02_) 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(CA799-01-02_) for low temperature start up capability.



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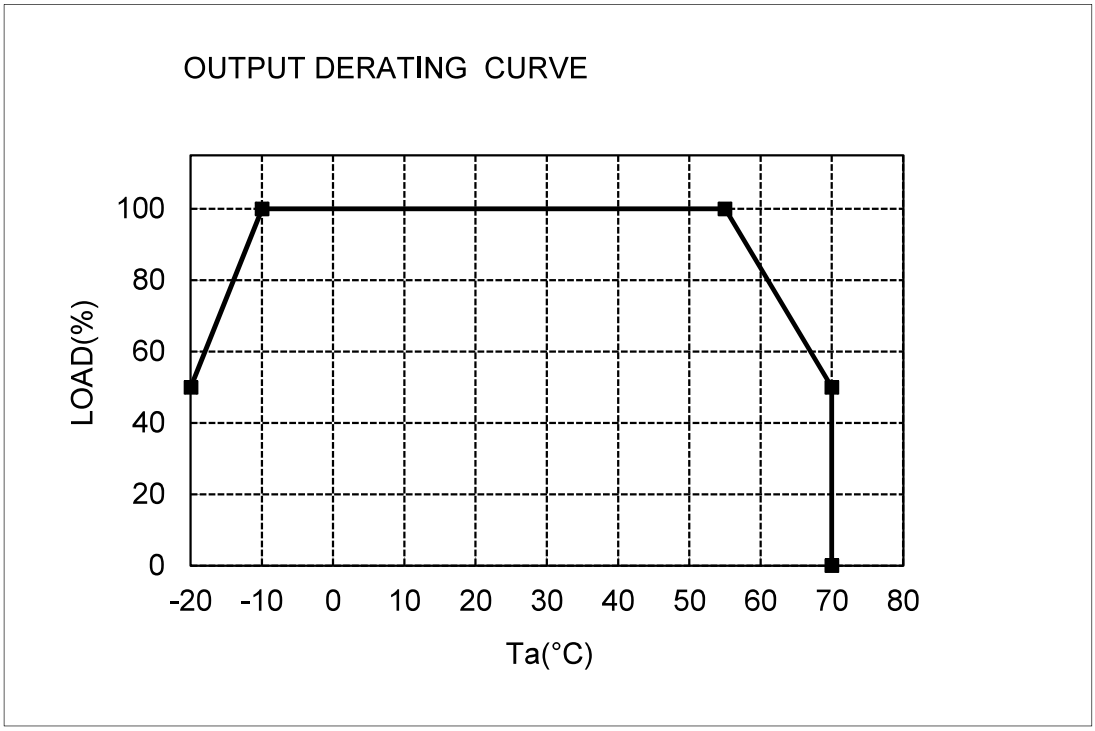
OUTPUT DERATING

CA799-01-02

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



Standard Mounting