DRJ100/C2

SPECIFICATIONS

A268-01-01/C2-B

	ITEMS / MODEL			DRJ100-24-1/C2
1	Nominal Output Voltage		V	24
2	Maximum Output Current		A	3.75
3	Maximum Output Power		W	90
4	Efficiency (Typ) (*1)	100VAC	%	88
		230VAC	%	90
5	Input Voltage Range (*2)(*13)		-	85 - 264VAC(47 - 63Hz) OR 120 - 370VDC
6	Input Current (Typ) (*1)		A	1.1/0.5
7	Inrush Current (Typ) (*1)(*3)		-	14A at 100VAC, 33A at 230VAC, Ta=25°C, Cold Start
8	PFHC		-	Designed to meet IEC61000-3-2
9	Power Factor (Typ) (*1)(*13)		-	0.97/0.92
10	Output Voltage Range		V	Fixed
11	Output Voltage Accuracy		%	±1
12	Maximum Ripple & Noise	0<Ta≤70°C	mV	240
		-20≤Ta≤0°C	mV	300
	(*4)	Io≤30%	mV	300
13	Maximum Line Regulation (*4)(*5)		mV	120
14	Maximum Load Regulation (*4)(*6)		mV	192
15	Temperature Coefficient		-	Less than 0.02% / °C
16	Over Current Protection (*7)		A	3.90 - 4.12
17	Over Voltage Protection (*8)		V	30.0 - 34.8
18	Hold-up Time (Typ) (*9)		-	20ms
19	Leakage Current (*10)		-	Less than 0.75mA
20	Remote Control		-	-
21	Parallel Operation		-	-
22	Series Operation		-	Possible
23	Operating Temperature (*11)(*13)		-	-20 - +70°C (-20°C:50%, -10 - +55°C:100%, +70°C:50%)
24	Operating Humidity		-	30 - 95%RH (No Condensing)
25	Storage Temperature		-	-40 - +85°C
26	Storage Humidity		-	10 - 95%RH (No Condensing)
27	Cooling		-	Convection Cooling
28	Withstand Voltage		-	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (50mA) for 1min
29	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output to FG : 500VDC
30	Vibration		-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s^2 Constant, X,Y,Z 1hour each.
31	Shock (In package)		-	Less than 294m/s^2
32	Safety		-	Approved by UL62368-1, CSA62368-1, Class 2 Output based on UL1310, EN62368-1, UL60950-1, CSA60950-1, EN60950-1, (Expire date of 60950-1 : 20/12/2020), UL508,CSA C22.2 No.107.1. Designed to meet Den-an Appendix 8 at 100VAC only.
33	Line DIP		-	Designed to meet SEMI-F47 (200VAC Line only)
34	Conducted Emission (*12)		-	Designed to meet EN55011/EN55032-B, FCC-ClassB, VCCI-B
35	Radiated Emission (*12)		-	Designed to meet EN55011/EN55032-B, FCC-ClassB, VCCI-B
36	Immunity (*12)		-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11
37	Weight (Typ)		g	320
38	Size (W x H x D)		mm	45 x 75 x 105 (Refer to Outline Drawing)

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

=NOTES=

*1. At 100VAC/230VAC, Ta=25°C, nominal output voltage and maximum output power.

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

*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 Vo, line & load regulation and ripple voltage.

*5. 85 - 264VAC, constant load.

*6. No load-Full load, constant input voltage.

*7. Hiccup with automatic recovery.
Avoid to operate at over load or short circuit condition.

*8. OVP circuit will shut down output, manual reset (Re power on).

*9. At 100VAC, Ta=25°C, nominal output voltage and 80% output power.

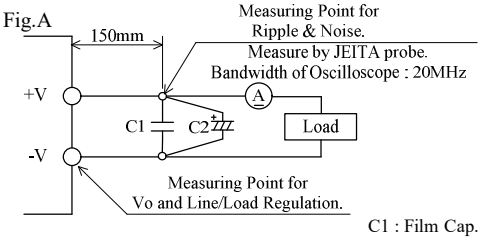
*10. Measured by the each measuring method of UL, CSA and Den-an(at 60Hz), Ta=25°C.

*11. Output Derating
- Derating at standard mounting. Refer to LOAD vs. AMBIENT TEMPERATURE (A268-01-02/C2-_).
- Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.

*12. The power supply is considered a component which will be installed into a final equipment.
The final equipment should be re-evaluated that it meets EMC directives.

*13. Output derating needed when input voltage less than 100VAC. Refer to LOAD vs. INPUT VOLTAGE (A268-01-02/C2-_).

Fig.A



C1 : Film Cap. 0.1μF
C2 : Elect. Cap. 100μF

DRJ100/C2

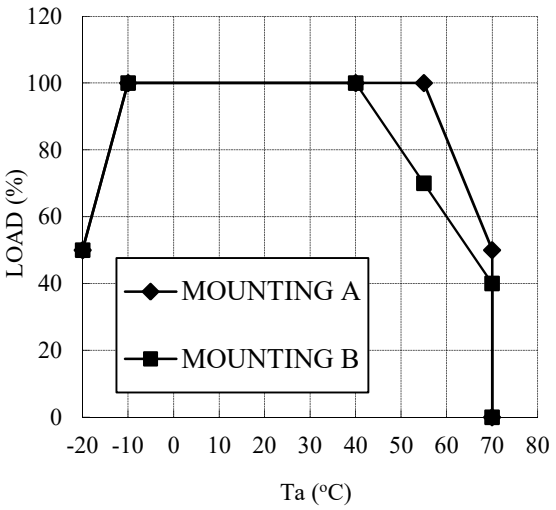
OUTPUT DERATING

A268-01-02/C2

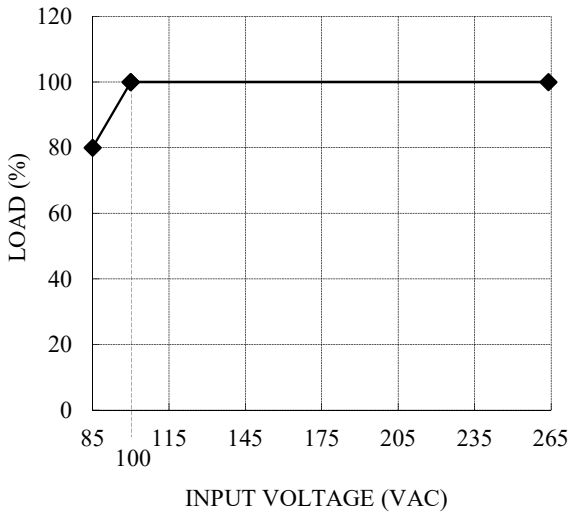
Ta (°C)	LOAD (%)	
	MOUNTING A	MOUNTING B
-20	50	50
-10 - +40	100	100
55	100	70
70	50	40

INPUT VOLTAGE (VAC)	LOAD (%)
	MOUNTING A,B
85	80
100 - 264	100

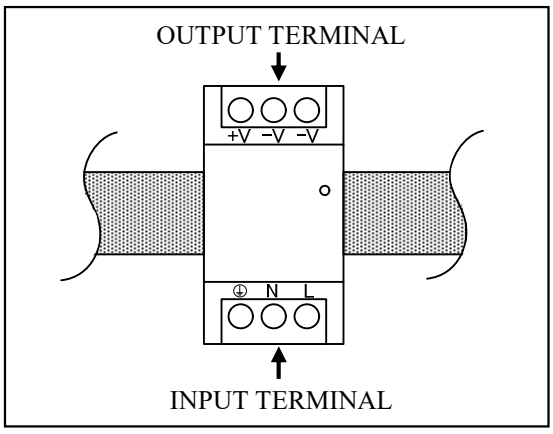
LOAD vs. AMBIENT TEMPERATURE



LOAD vs. INPUT VOLTAGE



MOUNTING A
(STANDARD MOUNTING)



MOUNTING B