

**DRJ100**

SPECIFICATIONS

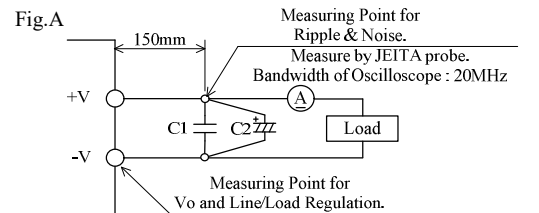
A268-01-01C

ITEMS		MODEL	DRJ100-24-1	
1	Nominal Output Voltage	V	24	
2	Maximum Output Current	A	4.2	
3	Maximum Output Power	W	100.8	
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)(*13)	A	1.2/0.55	
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	21.6 - 28.5	
11	Maximum Ripple & Noise (*4)	0<Ta≤70°C	mV	240
		-20≤Ta≤0°C	mV	300
		Io≤30%	mV	300
12	Maximum Line Regulation (*4)(*5)	mV	120	
13	Maximum Load Regulation (*4)(*6)	mV	192	
14	Temperature Coefficient	-	Less than 0.02% / °C	
15	Over Current Protection (*7)	A	4.4 -	
16	Over Voltage Protection (*8)	V	30.0 - 34.8	
17	Hold-up Time (Typ) (*9)	-	20ms	
18	Leakage Current (*10)	-	Less than 0.75mA	
19	Remote Control	-	-	
20	Parallel Operation	-	-	
21	Series Operation	-	Possible	
22	Operating Temperature (*11)(*13)	-	-20 - +70°C (-20°C:50%, -10- +55°C:100%, +70°C:50%)	
23	Operating Humidity	-	30 - 95%RH (No Condensing)	
24	Storage Temperature	-	-40 - +85°C	
25	Storage Humidity	-	10 - 95%RH (No Condensing)	
26	Cooling	-	Convection Cooling	
27	Withstand Voltage	-	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (50mA) for 1min	
28	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output to FG : 500VDC	
29	Vibration	-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s <sup>2</sup> Constant, X,Y,Z 1 hour each.	
30	Shock (In package)	-	Less than 294m/s <sup>2</sup>	
31	Safety	-	Approved by UL62368-1, CSA62368-1, 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.	
32	Line DIP	-	Designed to meet SEMI-F47 (200VAC Line only)	
33	Conducted Emission (*12)	-	Designed to meet EN55011/EN55032-B, FCC-ClassB, VCCI-B	
34	Radiated Emission (*12)	-	Designed to meet EN55011/EN55032-B, FCC-ClassB, VCCI-B	
35	Immunity (*12)	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11	
36	Weight (Typ)	g	320	
37	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 ).
  - 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 90VAC. Refer to LOAD vs. INPUT VOLTAGE (A268-01-02 ).



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

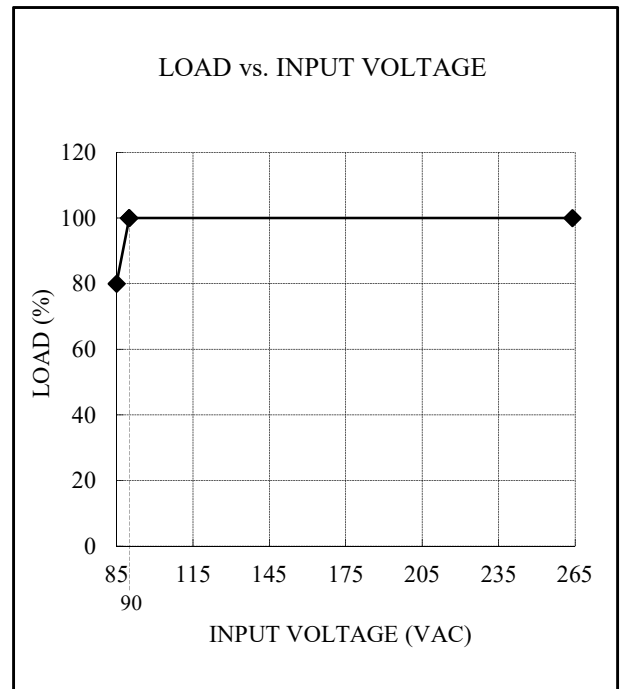
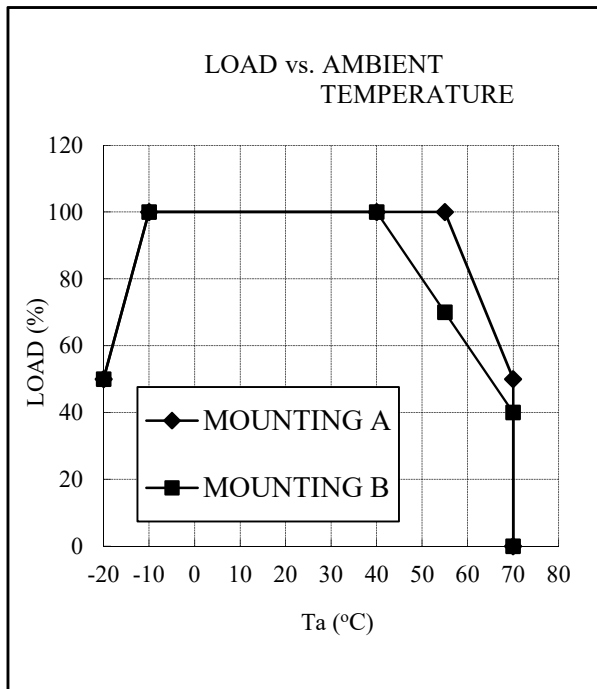
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OUTPUT DERATING

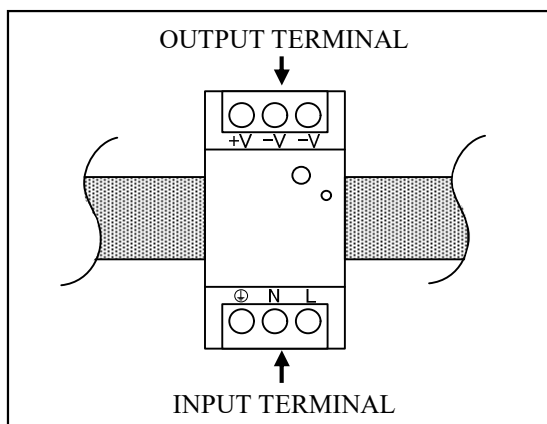
A268-01-02A

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
90 - 264	100



MOUNTING A  
(STANDARD MOUNTING)



MOUNTING B

