

DRJ30/E

SPECIFICATIONS

A266-01-01/E-D

ITEMS		MODEL	DRJ30-5-1/E	DRJ30-12-1/E	DRJ30-24-1/E	
1	Nominal Output Voltage	V	5	12	24	
2	Maximum Output Current	A	4	2.3	1.25	
3	Maximum Output Power	W	20	27.6	30	
4	Efficiency (Typ) (*1)	100VAC	81	85.5	87.5	
		230VAC	84	87.5	90	
5	Input Voltage Range (*2)(*13)	-	85 - 264VAC(47 - 63Hz) OR 120- 370VDC			
6	Input Current (Typ) (*1)	A	0.5/0.25	0.65/0.35		
7	Inrush Current (Typ) (*1)(*3)	-	14A at 100VAC, 33A at 230VAC, Ta=25°C, Cold Start			
8	PFHC	-	-			
9	Power Factor (Typ)	-	-			
10	Output Voltage Range	V	4.5 - 6.0	10.8 - 15.0	21.6 - 28.5	
11	Maximum Ripple & Noise (*4)	0<Ta≤70°C	mV	50	120	240
		-20≤Ta<0°C	mV	300	300	300
		Io≤30%	mV	300	300	300
12	Maximum Line Regulation (*4)(*5)	mV	25	60	120	
13	Maximum Load Regulation (*4)(*6)	mV	40	96	192	
14	Temperature Coefficient	-	Less than 0.02% / °C			
15	Over Current Protection (*7)	A	4.2 -	2.4 -	1.3 -	
16	Over Voltage Protection (*8)	V	6.2 - 7.3	16.0 - 18.8	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 ² Constant, X,Y,Z 1hour each.			
30	Shock (In package)	-	Less than 294m/s ²			
31	Safety	-	Approved by UL62368-1, CSA62368-1, Class 2 Output per 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.			
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	120			
37	Size (W x H x D)	mm	21.5 x 75 x 90 (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 (A266-01-02/E-).

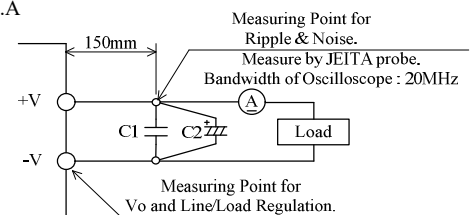
- Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.

*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 (A266-01-02/E-).

Fig.A



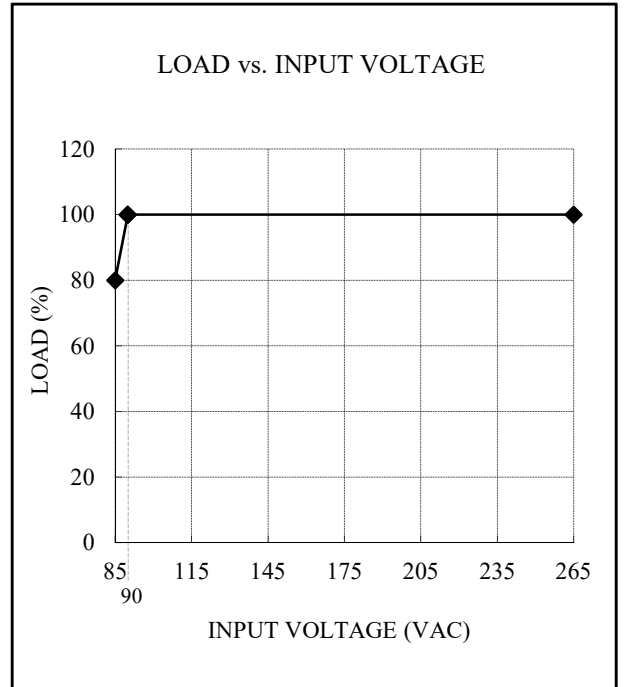
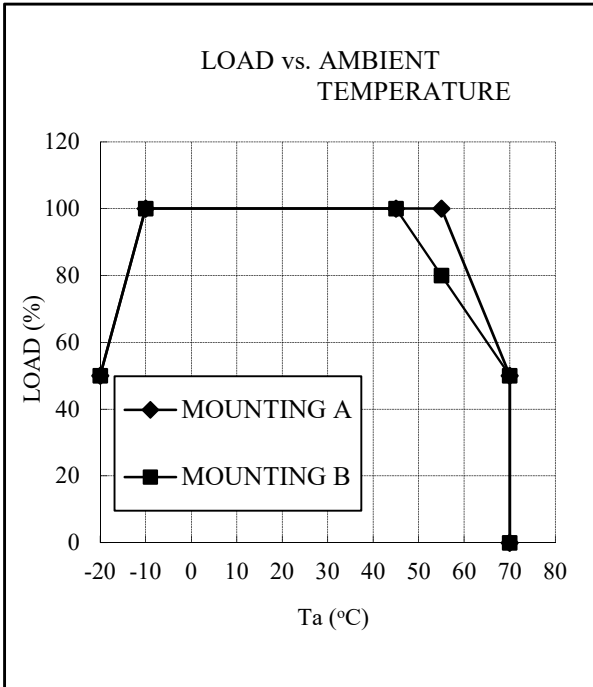
C1 : Film Cap. 0.1μF
C2 : Elect. Cap. 100μF

OUTPUT DERATING

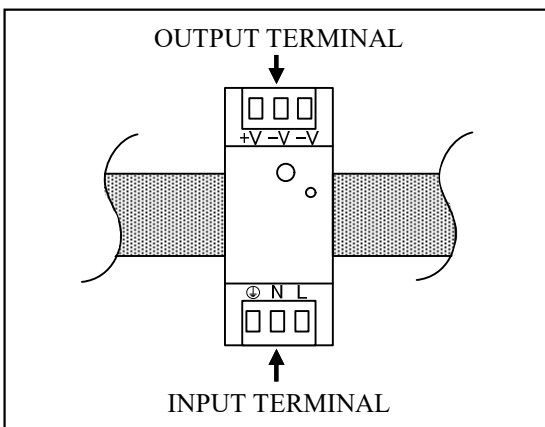
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Ta (°C)	LOAD (%)	
	MOUNTING A	MOUNTING B
-20	50	50
-10 - +45	100	100
55	100	80
70	50	50

INPUT VOLTAGE (VAC)	LOAD (%)
	MOUNTING A,B
85	80
90 - 264	100



MOUNTING A
(STANDARD MOUNTING)



MOUNTING B

