DRJ30

SPECIFICATIONS

A266-01-01C

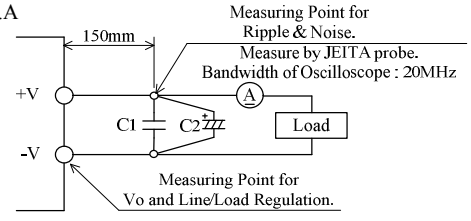
	ITEMS / MODEL			DRJ30-5-1	DRJ30-12-1	DRJ30-24-1
1	Nominal Output Voltage		V	5	12	24
2	Maximum Output Current		A	4	2.3	1.25
3	Maximum Output Power		W	20	27.6	30
4	Efficiency (Typ) (*1)	100VAC	%	81	85.5	87.5
		230VAC	%	84	87.5	90
5	Input Voltage Range (*2)(*13)		-	85 - 264VAC(47 - 63Hz) OR 120- 370VDC		
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	0≤Ta≤70°C	mV	50	120	240
		-20≤Ta≤0°C	mV	300	300	300
	(*4)	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 UL60950-1, CSA60950-1, EN60950-1, 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_).
- 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_).

Fig.A



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

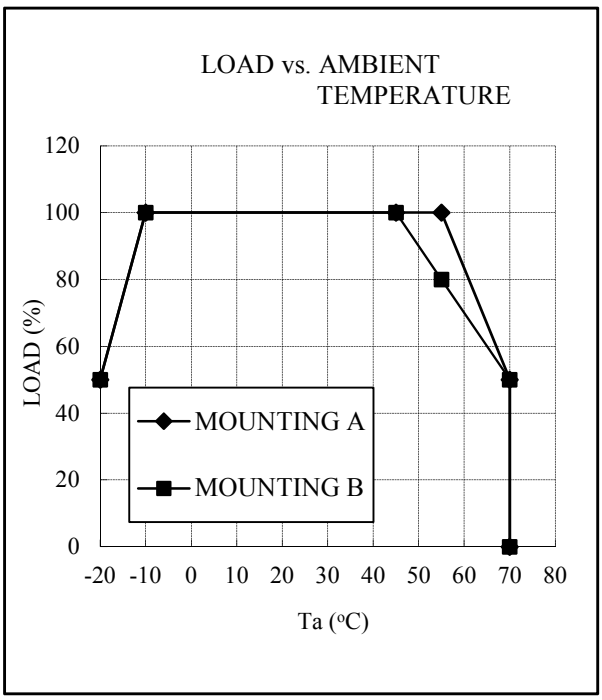
DRJ30

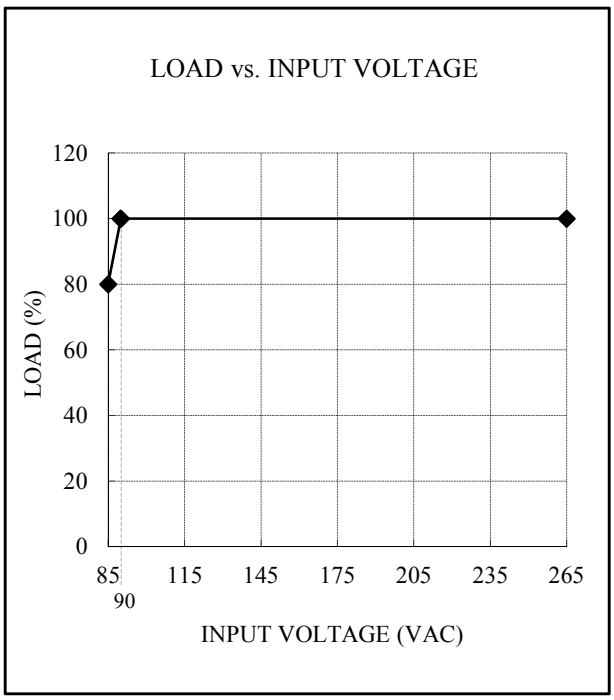
OUTPUT DERATING

A266-01-02

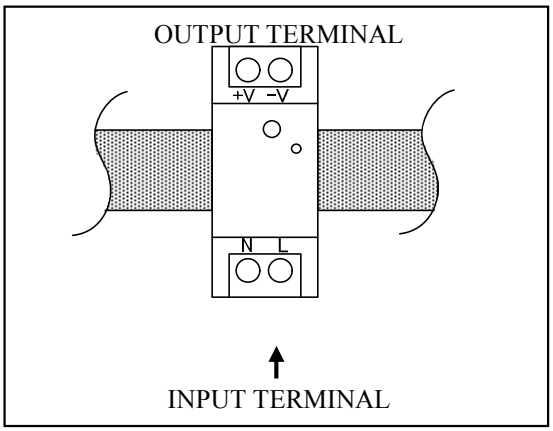
Ta (°C)	LOAD (%)	
	MOUNTING A	MOUNTING B
-20	50	50
-10 - +45	100	100
55	100	80
70	50	50

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





MOUNTING A
(STANDARD MOUNTING)



MOUNTING B