

**DRJ50/E**

SPECIFICATIONS

A267-01-01/E-C

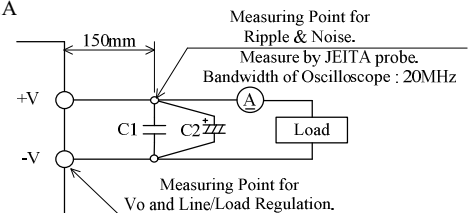
ITEMS		MODEL	DRJ50-12-1/E	DRJ50-24-1/E
1	Nominal Output Voltage	V	12	24
2	Maximum Output Current	A	3.4	2.1
3	Maximum Output Power	W	40.8	50.4
4	Efficiency (Typ) (*1)	100VAC	86	87.5
		230VAC	88	89.5
5	Input Voltage Range (*2)(*13)	-	85- 264VAC( 47-63Hz) OR 120- 370VDC	
6	Input Current (Typ) (*1)(*13)	A	0.9/0.5	1.10/0.60
7	Inrush Current (Typ) (*1)(*3)	-	24A at 100VAC, 55A at 230VAC, Ta=25°C, Cold Start	
8	PFHC	-	-	
9	Power Factor (Typ)	-	-	
10	Output Voltage Range	V	10.8 - 15.0	21.6 - 28.5
11	Maximum Ripple & Noise (*4)	0<Ta<70°C	mV	120
		-20<Ta<0°C	mV	300
		Io<30%	mV	300
12	Maximum Line Regulation (*4)(*5)	mV	60	120
13	Maximum Load Regulation (*4)(*6)	mV	96	192
14	Temperature Coefficient	-	Less than 0.02% / °C	
15	Over Current Protection (*7)	A	3.6 -	2.2 -
16	Over Voltage Protection (*8)	V	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 <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, 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	180	
37	Size (W x H x D)	mm	30 x 75 x90 ( 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 (A267-01-02/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 (A267-01-02/E-).

Fig.A



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

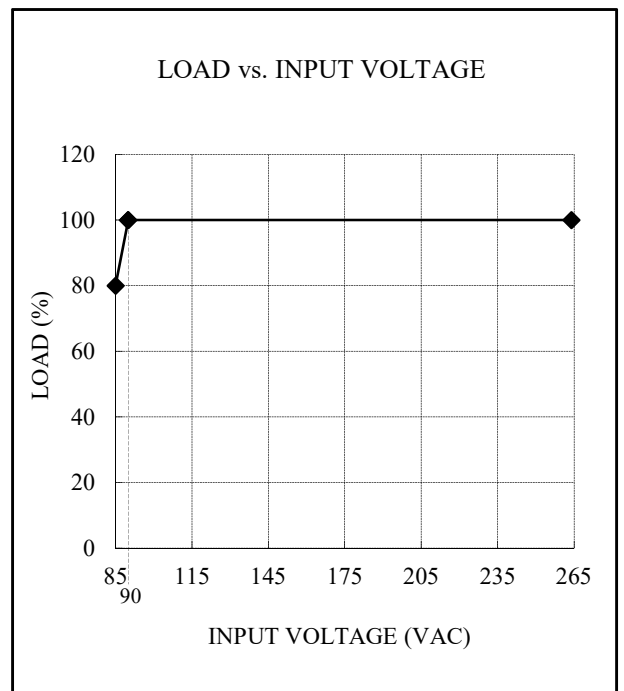
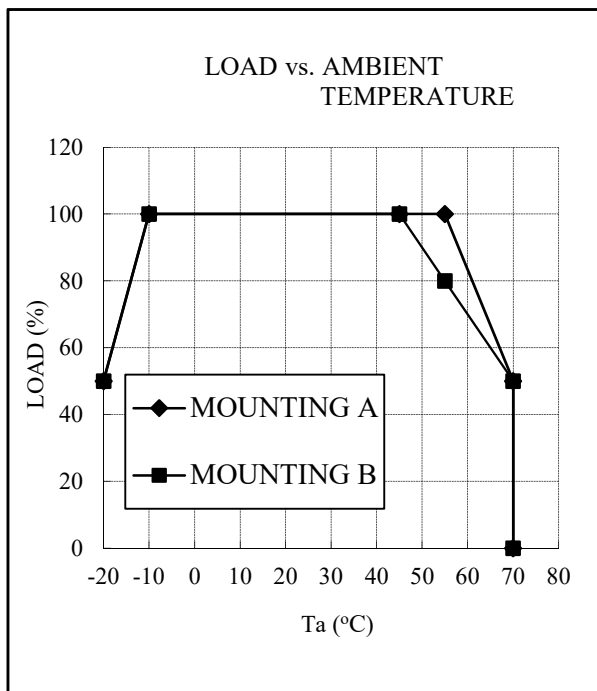
**DRJ50/E**

OUTPUT DERATING

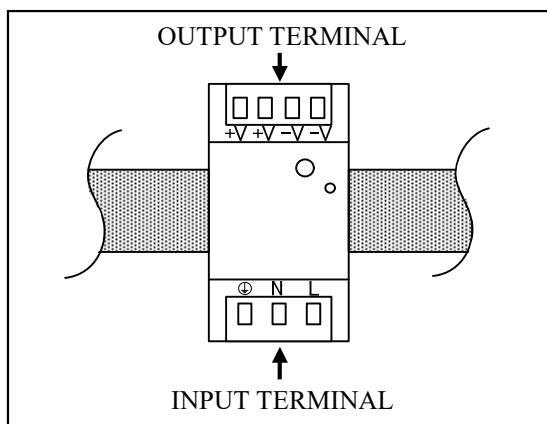
A267-01-02/E-A

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

