MEAN WELL

MEAN WELL COLOMBIA

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RD-50N series

50W Dual Output Switching Power Supply



■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- * High operating temperature up to $70^{\circ}\!\text{C}$
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 1 years warranty



SPECIFICATION

MODEL		RD-50A		RD-50B		
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	
ОИТРИТ	DC VOLTAGE	5V	12V	5V	24V	
	RATED CURRENT	6A	2A	4A	1.4A	
	CURRENT RANGE	0 ~ 6A	0 ~ 3A	0 ~ 6A	0 ~ 2A	
	RATED POWER	54W		53.6W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V		CH1: 4.75 ~ 5.5V		
	VOLTAGE TOLERANCE Note.3	±2.0%	±7.0%	±2.0%	±8%	
	LINE REGULATION Note.4	±0.5%	±1.5%	±0.5%	±1.5%	
	LOAD REGULATION Note.5	±0.5%	±3.0%	±0.5%	±3.0%	
	SETUP, RISE TIME	500ms, 20ms/230VAC 120	0ms, 30ms/115VAC at full load			
	HOLD UP TIME (Typ.)	60ms/230VAC 10ms/115VAC at full load				
INPUT	VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY(Typ.)	78%		79%		
	AC CURRENT (Typ.)	1.3A/115VAC 0.8A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 48A/230VAC				
	LEAKAGE CURRENT	<2mA / 240VAC				
PROTECTION		110 ~ 150% rated output power				
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
		CH1: 5.75 ~ 6.75V				
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
ENVIRONMENT	WORKING TEMP.	$-25 \sim +70$ °C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	$\pm 0.03\%$ $^{\circ}$ C (0 ~ 50 $^{\circ}$ C)on +5V output				
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC (Note 6)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, EAC TP TC 004 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/70% RH				
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020				
OTHERS	MTBF	172.6Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	99*97*36mm (L*W*H)				
	PACKING	0.41Kg; 45pcs/19.5Kg/0.9CUFT				
NOTE	Ripple & noise are measure Tolerance : includes set up Line regulation is measurec Load regulation is measure The power supply is consided a 360mm and a metal place perform these EMC tests, p	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured from 0% to 100% rated load. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft)				



