

50W Triple Output Switching Power Supply

RT-50 series

Features :

- Universal AC input / Full range
- · Protections:Short circuit/Over load/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℃
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty



SPECIFICATION

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MODEL		RT-50A			RT-50B			RT-50C			RT-50D			
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	
	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	5V	24V	12V	
	RATED CURRENT	4A	2A	0.5A	4A	2A	0.5A	4A	1.5A	0.5A	3A	1A	1A	
	CURRENT RANGE	0.5~5A	0.2 ~ 2.5A	0.1~1A	0.5~5A	0.2 ~ 2.5A	0.1 ~ 1A	0~5A	0.2~2A	0.1~1A	0.5~5A	0.2 ~ 1.5	A 0.1 ~ 1	
	RATED POWER	46.5W	46.5W			50W			50W 5			51W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p 120mVp-p 100mVp-p			80mVp-p 120mVp-p 120mVp-p			80mVp-p 120mVp-p 120mVp-p			80mVp-p 150mVp-p 120m		
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			
	VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	+8,-4%	±2.0%	±2.0%	+ 8,-4%	±6.0%	
	LINE REGULATION Note.4	±0.5%	±1.5%	±0.5%	±0.5%	±1.5%	±0.5%	±0.5%	±1.5%	±0.5%	±0.5%	±2.0%	±2.0%	
	LOAD REGULATION Note.5	±1.0%	±3.0%	±1.0%	±1.0%	±3.0%	±1.0%	±1.0%	±3.0%	±1.0%	±1.0%	±3.0%	±4.0%	
	SETUP, RISE TIME	500ms, 20	500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load											
	HOLD TIME (Typ.)	60ms/230VAC 10ms/115VAC at full load												
	VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)												
INPUT	FREQUENCY RANGE	47 ~ 63Hz									19			
	EFFICIENCY (Typ.)	77%			77%			78%			80%	100	440	
	AC CURRENT (Typ.)	1.3A/115	VAC ().8A/230VA	C				a starter					
	INRUSH CURRENT (Typ.)	COLD START 36A/230VAC												
	LEAKAGE CURRENT	<2mA/ 240VAC												
PROTECTION		110 ~ 150% rated output power												
	OVER LOAD	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.		$-25 \sim +70^{\circ}$ C (Refer to output load derating curve)											
	WORKING HUMIDITY		20 ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH ±0.03%/°C (0 ~ 50°C)on +5V output												
				,	· ·	Somin each	along X V	7 2205	1.00		- 113		44.0	
	VIBRATION SAFETY STANDARDS		10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes											
SAFETY &	WITHSTAND VOLTAGE	UL60950-1, TUV EN60950-1 Approved I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC												
	ISOLATION RESISTANCE	I/P-O/P. SKVAC //F-FG. 1.5KVAC 0/F-FG.0.5KVAC												
	EMI CONDUCTION & RADIATION													
EMC (Note 6)	HARMONIC CURRENT													
	EMS IMMUNITY	Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4.5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A												
	MTBF													
OTHERS	DIMENSION	169.2Khrs min. MIL-HDBK-217F (25°C) 99*97*36mm (L*W*H)												
			99"97"36mm (L"W"H) 0.41Kg; 45pcs/19.5Kg/0.9CUFT											
	PACKING 1. All parameters NOT specia 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Line regulation is measure 5. Load regulation is measure 6. The power supply is consid EMC directives.	lly mention ed at 20MH tolerance, f from low d from 0%	ed are me Iz of band line regula line to high to 100% r	easured at 2 width by us ation and lo n line at rate rated load.	230VAC inp sing a 12" t ad regulati ed load.	wisted pair on.	-wire termi	nated with	n a 0.1uf &	47uf paralle			I meets	



