

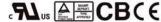
RT-50 Series

50W Triple Output Switching Power Supplies



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°C
- · Withstand 5G vibration test
- · High efficiency, long life and high reliability



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specification	, 111								
	Voltage	88V ~ 264VAC universal full range or 125V ~ 373VDC							
	Frequency	47 63 Hz							
INPUT	Current	<1.3A@115V, 0.8A@230V AC input, full load condition							
	Inrush Current	<36A@230VAC input, Cold start at 25℃ ambient							
	Leakage Current	<2.0mA@240V AC input							
	MODEL No.	RT-50A			RT-50B				
	Channel	CH1	CH2	CH3	CH1	CH2	СНЗ		
	Voltage	5V	12V	-5V	5V	12V	-15V		
	Rated Current	4A	2A	0.5A	4A	2A	0.5A		
	Current Range	0.5~5A	0.2~2.5A	0.1~1A	0.5~5A	0.2~2.5A	0.1~1A		
OUTPUT	Voltage Adj. Range	CH1: 4.75~5.5V CH1: 4.75~5.5V							
	Output Tolerance	± 2%	± 6%	± 2%	± 2%	± 6%	± 2%		
	Line Regulation	± 0.5%	± 1.5%	± 0.5%	± 0.5%	± 1.5%	± 0.5%		
	Load Regulation	± 1%	± 3%	± 1%	± 1%	± 3%	± 1%		
	Ripple Noise MAX.	80mV	120mV	100mV	80mV	120mV	120mV		
	Efficiency (TYP.)	77%			77%				
	Power	46.5W			50W				
	Over Voltage	CH1: 4.75~5.5V	CH1: 4.75~5.5V CH1: 4.75~5.5V						
PROTECTION		Hiccup mode, recovers automatically after fault condition is removed							
ROTECTION	Over Load	When the power supply is over 110% 150% max load or short circuited it will go into hiccup mode and recover automatically after the fault is removed.							
ELEC. CHAR.	Rise Time	<20mS@230VAC 30mS@115VAC							
	Hold up Time	>60mS@230V, 10mS@115VAC full load							
	Setup Time	<0.5 Sec@230VA	<0.5 Sec@230VAC 1.2mS@115VAC						
ENVIRONMENT	Temperature	Operating: -25 \sim +70 $^{\circ}\mathrm{C}$; Storage: -40 $^{\circ}$ +85 $^{\circ}\mathrm{C}$							
	Humidity	Operating: 20% ~ 90% RH; Storage: 10% ~ 95% RH (non condensing)							
SAFETY	Withstand Voltage	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute							
	Isolation Resistance	I/P-0/P, I/P-FG,	0/P - FG 100M	Ω/500VDC					
	Safety Standard	UL60950-1, TUV EN60950-1 Approved.							
EMC	EMI	Compliance to EN	N55022; EN6100	0-3-2,3					
	EMS	EN61000-4-2,3,4	EN61000-4-2,3,4,5,6,8,11; ENV50204; EN61000-6-2						
	Cooling	Natural cooling							
OTHERS	M.T.B.F.	169.2Khrs min.	MIL-HDBK-217	F (25°C)					
	Packing	0.41Kg; 45 pcs/1	19.5Kg/0.9 CUFT						

- 1 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3 Tolerance : includes set up tolerance, line regulation and load regulation.
- 4 Line regulation is measured from low line to high line at rated load.
- 5 Load regulation is measured from 0% to 100% ratedload.
- 6 The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.



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	Leakage Current	<2.0mA@240V AC input								
	MODEL No.	RT-50C	RT-50C RT-50D							
	Channel	CH1	CH2	СНЗ	CH1	CH2	СНЗ			
	Voltage	5V	15V	- 15V	5V	24V	12V			
	Rated Current	4A	1.5A	0.5A	3A	1A	1A			
OUTPUT	Current Range	0.5~5A	0.2~2A	0.1~1A	0.5~5A	0.2~1.5A	0.1~1A			
	Voltage Adj. Range	CH1: 4.75~5.5V	CH1: 4.75~5.5V CH1: 4.75~5.5V							
	Output Tolerance	± 2%	+8, -4%	± 2%	± 2%	+8, -4%	± 6%			
	Line Regulation	± 0.5%	± 1.5%	± 0.5%	± 0.5%	± 2%	± 2%			
	Load Regulation	± 1%	± 3%	± 1%	± 1%	± 3%	± 4%			
	Ripple Noise MAX.	80mV	120mV	120mV	80mV	150mV	120mV			
	Efficiency (TYP.)	78%			80%					
	Power	50W			51W					
	Over Voltage	CH1: 4.75~5.5V	CH1: 4.75~5.5V CH1: 4.75~5.5V							
PROTECTION		Hiccup mode, recovers automatically after fault condition is removed								
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	Isolation Resistance	I/P-0/P, I/P-FG,	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC							
	Safety Standard	UL60950-1, TUV	UL60950-1, TUV EN60950-1 Approved							
EMC	EMI	Compliance to EN	Compliance to EN55022; EN61000-3-2,3							
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	Cooling	Natural cooling								
OTHERS	M.T.B.F.	169.2Khrs min.	169.2Khrs min. MIL-HDBK-217F (25°C)							
	Packing	0.41Kg; 45 pcs/1	9.5Kg/0.9 CUFT							

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