



SPECIFICATION

50W Single Output Switching Power Supply

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

RS-50-15

15V

3.4A

0 ~ 3.4A

• 3 years warranty



RS-50-48

48V

1.1A

0 ~ 1.1A

RS-50-24

24V

2.2A

0 ~ 2.2A

MODEL RS-50-3.3 RS-50-5 RS-50-12 DC VOLTAGE 3.3V 5V 12V RATED CURRENT 10A 10A 4.2A CURRENT RANGE 0 ~ 10A 0 ~ 10A 0 ~ 4.2A RATED POWER 33W 50W 50.4W

ОИТРИТ								
	RATED POWER	33W	50W	50.4W	51W	52.8W	52.8W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	120mVp-p	120mVp-p	120mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	3V ~ 3.6V	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	22 ~ 27.2V	42 ~ 54V	
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION Note.5	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	
SETUP, RISE TIME 500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load								
	HOLD TIME (Typ.)	60ms/230VAC 14ms/115VAC at full load						
	VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)						
INPUT	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY(Typ.)	72%	78%	81%	83%	84%	86%	
	AC CURRENT (Typ.)	1.3A/115VAC 0.8A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 33A/230VAC						
	LEAKAGE CURRENT	<2mA / 240VAC						
PROTECTION	OVER LOAD	110 ~ 150% rated output power						
		Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	3.8 ~ 4.45V	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	55.2 ~ 64.8V	
		Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve)						
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC						
EMC	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B						
(Note 6)	HARMONIC CURRENT	Compliance to EN61	Compliance to EN61000-3-2,-3					

NOTE

OTHERS

EMS IMMUNITY

DIMENSION

PACKING

MTBF

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

MIL-HDBK-217F (25°C)

- 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.

228Khrs min.

99*97*36mm (L*W*H) 0.41Kg; 45pcs/19.5Kg/0.9CUFT

- 4. Line regulation is measured from low line to high line at rated load.
- 5. Load regulation is measured from 0% to 100% rated load.
- 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.

Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A





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