



■ 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
- 3 years warranty







SPECIFICATION

	RD-50A		RD-50B	
OUTPUT NUMBER	CH1	CH2	CH1	CH2
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			
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			
INRUSH CURRENT (Typ.)				
LEAKAGE CURRENT	<2mA / 240VAC			
OVERLOAD	110 ~ 150% rated output power			
	Protection type: Hiccup mode, recovers automatically after fault condition is removed			
OVER VOLTAGE	CH1: 5.75 ~ 6.75V			
	Protection type: Hiccup mode, recovers automatically after fault condition is removed			
WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")			
WORKING HUMIDITY	20 ~ 90% RH non-condensing			
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH			
TEMP. COEFFICIENT	$\pm 0.03\%$ °C (0 ~ 50 °C) on +5V output			
VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes			
SAFETY STANDARDS	UL62368-1, TUV EN62368-1, 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			
MTBF	172.6Khrs min. MIL-HDBK-217F (25°C)			
	99*97*36mm (L*W*H)			
DIMENSION	99 97 3011111 (L W H)			
	DC VOLTAGE RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION Note.4 LOAD REGULATION Note.5 SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY(Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVERLOAD OVER VOLTAGE WORKING TEMP. WORKING TEMP. WORKING HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	OUTPUT NUMBER CH1 DC VOLTAGE 5V RATED CURRENT 6A CURRENT RANGE 0 ~ 6A RATED POWER 54W RIPPLE & NOISE (max.) Note.2 80mVp-p VOLTAGE ADJ. RANGE CH1: 4.75 ~ 5.5V VOLTAGE TOLERANCE Note.3 ±2.0% LINE REGULATION Note.4 ±0.5% LOAD REGULATION Note.5 500ms, 20ms/230VAC 120 HOLD UP TIME (Typ.) 60ms/230VAC 10ms/115V/A VOLTAGE RANGE 88 ~ 264VAC 125 ~ 373VD FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY(Typ.) 78% AC CURRENT (Typ.) 1.3A/115VAC 0.8A/230VAC INRUSH CURRENT (Typ.) COLD START 48A/230VAC LEAKAGE CURRENT <2mA / 240VAC	OUTPUT NUMBER CH1 CH2 DC VOLTAGE 5V 12V RATED CURRENT 6A 2A CURRENT RANGE 0 ~ 6A 0 ~ 3A RATED POWER 54W RIPPLE & NOISE (max.) Note.2 80mVp-p 120mVp-p VOLTAGE ADJ. RANGE CH1: 4.75 ~ 5.5V ±7.0% LINE REGULATION Note.4 ±0.5% ±1.5% LOAD REGULATION Note.5 ±0.5% ±3.0% SETUP, RISE TIME 500ms, 20ms/230VAC 120ms, 30ms/115VAC at full load HOLD UP TIME (Typ.) 60ms/230VAC 10ms/115VAC at full load HOLD UP TIME (Typ.) 60ms/230VAC 125 ~ 373VDC (Withstand 300VAC surge for 60ms/230VAC FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY(Typ.) 78% AC CURRENT (Typ.) 1.3A/115VAC 0.8A/230VAC INRUSH CURRENT (Typ.) 1.3A/115VAC 0.8A/230VAC LEAKAGE CURRENT <2mA / 240VAC	OUTPUT NUMBER CH1 CH2 CH1 DC VOLTAGE 5V 12V 5V RATED CURRENT 6A 2A 4A CURRENT RANGE 0 ~ 6A 0 ~ 3A 0 ~ 6A RATED POWER 54W 536W 50W RIPPLE & NOISE (max.) Note.2 80mVp-p 120mVp-p 80mVp-p VOLTAGE ADJ. RANGE CH1: 4.75 ~ 5.5V CH1: 4.75 ~ 5.5V CH1: 4.75 ~ 5.5V VOLTAGE TOLERANCE Note.3 ± 2.0% ± 1.5% ± 2.0% LINE REGULATION Note.4 ± 0.5% ± 1.5% ± 0.5% LINE REGULATION Note.5 ± 0.5% ± 1.5% ± 0.5% SETUP, RISE TIME 500ms, 20ms/230VAC 10ms/115VAC at full load 10.5% VOLTAGE RANGE 88 - 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage) FREQUENCY RANGE 47 ~ 63Hz FEFICIENCY(Typ.) 1.3A/115VAC 0.8A/230VAC 10ms/115VAC at full load VOLTAGE RANGE CURRENT (Typ.) 1.0 × 10% rated output power 79% DVERLOAD 110 ~ 150% rated output power Protection type : Hiccup mode, re

- 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% rated load.
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